



MATERIAL SAFETY DATA SHEET

MSDS Number: 1402C

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Trade Name: OATEY CANADIAN PURPLE or CLEAR PRIMER NSF LISTED
Product Nos.: Purple - 30759, 30927, 31480, 31481, 31482, 31483 Clear - 30754, 31485, 31486, 31487, 31488, 31525, 31526, 31527, 31528
Product Use: Primer for PVC and CPVC Plastic Pipe
Formula: See section 3
Synonyms: Plastic Pipe Primer
Firm Name & Address: Oatey Company 4700 West 160th Street, Cleveland, Ohio 44135 www.oatey.com
Firm Phone No: (216) 267-7100
Emergency Phone Nos.: For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared by: Technical Department
Preparation Date: 09/11/2012

Section 2 HAZARDS IDENTIFICATION

Emergency Overview: Purple or Clear liquid with an ether-like odor. Extremely flammable liquid and vapor. Vapors may cause flash fire. May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects. Swallowing may cause irritation, nausea, vomiting, diarrhea and kidney or liver disorders. Aspiration hazard. May be fatal if swallowed. Symptoms may be delayed.

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Table with 6 columns: INGREDIENTS, %wt/wt, CAS NUMBER, ACGIH TLV TWA, OSHA PEL TWA, OTHER. Rows include Tetrahydrofuran, Methyl Ethyl Ketone, Acetone, and Cyclohexanone.

OSHA Hazard Classification: Flammable, irritant, organ effects

Section 4 FIRST AID MEASURES

Skin: Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with Oatey Plumber's Hand Cleaner or baby oil.
Eyes: If material gets into eyes or if fumes cause irritation, immediately flush eyes with plenty of water until chemical is removed. If irritation persists, get medical attention immediately.
Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.
Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by

calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

Section 5 FIRE FIGHTING MEASURES

Flashpoint / Method: 14 - 23 Degrees F. (-10 to -5 Degrees C) / CCCFP

Flammability: LEL = 1.8 % Volume, UEL = 11.8 % Volume

Extinguishing Media: Use dry chemical, CO₂, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.

Special Fire Fighting Procedure: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored

Unusual Fire And Explosion Hazards: Extremely flammable liquid. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

Hazardous Decomposition Products: Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Section 6 ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Remove all sources of ignition and ventilate area. Stop leak if it can be done without risk. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with an inert absorbent such as sand, earth or other non-combusting material. Put absorbent material in covered, labeled metal containers. Prevent liquid from entering watercourses, sewers and natural waterways. Report releases to authorities as required. See Section 13 for disposal information.

Section 7 HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

Storage: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.

Other: "Empty" containers retain product residue and can be hazardous. Follow all MSDS precautions in handling empty containers. Do not cut or weld on or near empty or full containers.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Open doors & windows. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.

Respiratory Protection: For operations where the exposure limit may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Skin Protection: Rubber gloves are suitable for normal use of the product. For long exposures chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact.

Eye Protection: Safety glasses with side shields or safety goggles.

Section 9**PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: 151 Degrees F / 66 Degrees C
Melting Point: Not applicable
Vapor Pressure: 145 mmHg @ 20 Degrees C
Vapor Density: (Air = 1) 2.5
Volatile Components: 99.96%
Solubility In Water: Negligible
pH: Not applicable
Specific Gravity: 0.84 +/- 0.02 @ 20 Degrees C
Evaporation Rate: (BUAC = 1) = 5.5 - 8.0
Appearance: Purple or Clear Liquid
Odor: Ether-Like
Will Dissolve In: Tetrahydrofuran
Material Is: Liquid

Section 10 STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Avoid: Avoid heat, sparks, flames and other sources of ignition.
Avoid:
Hazardous Decomposition: Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.
Products:
Incompatibility/ Materials To Avoid: Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.
Hazardous Polymerization: Will not occur.

Section 11 TOXICOLOGICAL INFORMATION

Inhalation: Vapors or mists may cause mucous membrane and respiratory irritation, coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.
Skin: May cause irritation with redness, itching and pain. Methyl ethyl ketone and cyclohexanone may be absorbed through the skin causing effects similar to those listed under inhalation.
Eye: Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.
Ingestion: Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.
Chronic Toxicity: Prolonged or repeated overexposure cause dermatitis and damage to the kidney, liver, lungs and central nervous system.
Toxicity Data:
Acetone: Oral rat LD50: 5,800 mg/kg
Inhalation rat LC50: 50,100 mg/m3/8 hours
Cyclohexanone: Oral rat LD50: 1,620 mg/kg
Inhalation rat LC50: 8,000 ppm/4 hours
Skin rabbit LD50: 1 mL/kg
Tetrahydrofuran: Oral rat LD50: 1,650 mg/kg
Inhalation rat LC50: 21,000 ppm/3 hours
Methyl Ethyl Ketone: Oral rat LD50: 2,737 mg/kg
Inhalation rat LC50: 23,500 mg/m3/8 hours
Skin rabbit LD50: 6,480 mg/kg
Sensitization: None of the components are known to cause sensitization.
Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA. The National Toxicology Program has reported that exposure of mice and rats to tetrahydrofuran (THF) vapor levels up to 1800 ppm 6 hr/day, 5 days/week for their lifetime caused an increased incidence of kidney tumors in male rats and liver tumors in female mice. The significance of these findings for human health is unclear at this time, and

may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for THF. ACGIH has classified cyclohexanone (CYH) and tetrahydrofuran as "A3," Confirmed Animal Carcinogens with Unknown Relevance to Humans.

Mutagenicity: Cyclohexanone has been positive in bacterial and mammalian assays. Acetone, methyl ethyl ketone and tetrahydrofuran are generally thought not to be mutagenic.

Reproductive Toxicity: Methyl ethyl ketone and cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone and tetrahydrofuran has been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.

Medical Conditions Aggravated By Exposure: Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

Section 12 ECOLOGICAL INFORMATION

This product is not expected to be toxic to aquatic organisms.
Cyclohexanone: 96 hour LC50 values for fish is over 100 mg/L.
Tetrahydrofuran: 96 hour LC50 fathead minnow: 2160 mg/L.
Acetone: 96 hour LC50 for fish is greater than 100 mg/L.
Methyl Ethyl Ketone: 96 hour LC50 for fish is greater than 100 mg/L.

VOC Information: This product emits VOC's (volatile organic compounds) in its use. Make sure that use of this product complies with local VOC emission regulations, where they exist.

VOC Level: Maximum 550 g/L per SCAQMD Test Method 316A.

Section 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state and federal regulations.

RCRA Hazardous Waste Number: U002, U057, U159, U213

EPA Hazardous Waste ID Number: D001, D035, F003, F0005

EPA Hazard Waste Number: Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

Section 14 TRANSPORT INFORMATION

DOT	<u>Less than 1 Liter (0.3 gal)</u>	<u>Greater than 1 Liter (0.3 gal)</u>
UN/NA Number:	None	UN1993
Proper Shipping Name:	Consumer Commodity	Flammable Liquid, NOS (Methyl Ethyl Ketone, Acetone)
Hazard Class:	ORM-D	3
Packing Group:	None	PGII
Hazard Labels:	None	Flammable Liquid
IMDG		
UN Number:	UN1993	UN1993
Proper Shipping Name:	Flammable Liquid, NOS (Limited Quantity)	Flammable Liquid, NOS (Methyl Ethyl Ketone, Acetone)
Hazard Class:	3	3
Packing Group:	II	II
Label:	None (Limited Quantities are expected from labeling)	Class 3 (Flammable Liquid)
Flashpoint (deg C)	-10 to -5 Degrees C	-10 to -5 Degrees C

Section 15 REGULATORY INFORMATION

Hazard Category for Acute Health, Chronic Health, Flammable
Section 311/312:

Section 302 This product does not contain chemicals regulated under SARA Section 302.
Extremely Hazardous
Substances (TPQ):

Section 313 Toxic Chemicals: This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

CERCLA 103 Reportable Quantity: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Tetrahydrofuran (30% maximum) of 1,000 lbs, is 3,333 lbs.

Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product does not contain any chemicals subject to California Proposition 65 regulations.

TSCA Inventory Canadian WHIMS Classification: All of the components of this product are listed on the TSCA inventory. Class B, Division 2; Class D, Division 2, Subdivision B; Class D, Division 2, Subdivision A. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Section 16 OTHER INFORMATION

NFPA and HMIS:

NFPA Hazard Signal: Health: 2 Flammability: 3 Reactivity: 1 Special: None

HMIS Hazard Signal: Health: 2* Flammability: 3 Reactivity: 1 PPE: G

Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources, and expressly do not make warranties, nor assume any liability for its use.

Template: tmpl-cn-e1



Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

***** Section 1 - Product and Company Identification *****

MSDS #1100E

Part Numbers: Clear - 31012, 31013, 31014, 31015, 31016, 31958, 31959, 31960, 31961

Manufacturer Information

Oatey Co.
4700 West 160th Street
Cleveland, OH 44135

Phone: 216-267-7100

For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1- 703-527-3887.

***** Section 2 - Hazards Identification *****

GHS Classification:

- Flammable Liquids - Category 2
- Acute Toxicity Oral - Category 4
- Acute Toxicity Dermal - Category 4
- Acute Toxicity Inhalation - Category 4
- Eye Damage/Irritation - Category 2A
- Carcinogenicity - Category 2
- Specific Target Organ Toxicity Single Exposure - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Danger

Hazard Statements

- Highly flammable liquid and vapor.
- Harmful if swallowed.
- Harmful in contact with skin.
- Harmful if inhaled.
- Causes serious eye irritation.
- Contains a chemical classified by the US EPA as a suspected possible carcinogen.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames and hot surfaces. - No smoking.
Keep container tightly closed.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing fume/gas/mist/vapors.
Use only outdoors or in a well-ventilated area.

Response

If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
If exposed or concerned Get medical advice/attention.
In case of fire: Use dry chemical, CO₂, or foam to extinguish fire.

Storage

Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
109-99-9	Tetrahydrofuran	20-40
78-93-3	Methyl ethyl ketone	15-35
108-94-1	Cyclohexanone	10-20
67-64-1	Acetone	10-20
9002-86-2	PVC (Chloroethylene, polymer)	10-18

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

If material gets into eyes or if fumes cause irritation, immediately flush eyes with plenty of water until chemical is removed. If irritation persists, get medical attention immediately.

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

First Aid: Skin

Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with hand cleaner or baby oil.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

First Aid: Inhalation

If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

***** Section 5 - Fire Fighting Measures *****

General Fire Hazards

See Section 9 for Flammability Properties.

Highly flammable liquid and vapor. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

Hazardous Combustion Products

Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Extinguishing Media

Use dry chemical, CO₂, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.

Unsuitable Extinguishing Media

None.

Fire Fighting Equipment/Instructions

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

***** Section 6 - Accidental Release Measures *****

Recovery and Neutralization

Stop leak if it can be done without risk.

Materials and Methods for Clean-Up

Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent such as sand, earth or other noncombusting material. Put absorbent material in covered, labeled metal containers.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high.

Environmental Precautions

Prevent liquid from entering watercourses, sewers and natural waterways.

Prevention of Secondary Hazards

None

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use. Other: "Empty" containers retain product residue and can be hazardous. Follow all SDS precautions in handling empty containers. Do not cut or weld on or near empty or full containers.

Storage Procedures

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.

Incompatibilities

Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Tetrahydrofuran (109-99-9)

ACGIH: 50 ppm TWA
100 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 200 ppm TWA; 590 mg/m³ TWA
NIOSH: 200 ppm TWA; 590 mg/m³ TWA
250 ppm STEL; 735 mg/m³ STEL

Methyl ethyl ketone (78-93-3)

ACGIH: 200 ppm TWA
300 ppm STEL
OSHA: 200 ppm TWA; 590 mg/m³ TWA
NIOSH: 200 ppm TWA; 590 mg/m³ TWA
300 ppm STEL; 885 mg/m³ STEL

Acetone (67-64-1)

ACGIH: 500 ppm TWA
750 ppm STEL
OSHA: 1000 ppm TWA; 2400 mg/m³ TWA
NIOSH: 250 ppm TWA; 590 mg/m³ TWA

Cyclohexanone (108-94-1)

ACGIH: 20 ppm TWA
50 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 50 ppm TWA; 200 mg/m³ TWA
NIOSH: 25 ppm TWA; 100 mg/m³ TWA
Potential for dermal absorption

PVC (Chloroethylene, polymer) (9002-86-2)

ACGIH: 1 mg/m³ TWA (respirable fraction)

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

Engineering Measures

Open doors & windows. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.

Personal Protective Equipment: Respiratory

For operations where the exposure limit may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Personal Protective Equipment: Hands

Rubber gloves are suitable for normal use of the product. For long exposures chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact.

Personal Protective Equipment: Eyes

Safety glasses with side shields or safety goggles.

Personal Protective Equipment: Skin and Body

No additional protective equipment needed.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Clear	Odor:	Ether-like
Physical State:	Liquid	pH:	NA
Vapor Pressure:	145 mmHg @ 20°C	Vapor Density:	2.5
Boiling Point:	151°F (66°C)	Melting Point:	NA
Solubility (H2O):	Negligible	Specific Gravity:	0.90 +/- 0.02 @ 20°C
Evaporation Rate:	(BUAC = 1) = 5.5 - 8.0	VOC:	84-88%
Octanol/H2O Coeff.:	ND	Flash Point:	14-23°F (-10 to -5°C)
Flash Point Method:	CCCFP	Upper Flammability Limit (UFL):	11.8
Lower Flammability Limit (LFL):	1.8	Burning Rate:	ND
Auto Ignition:	ND		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid heat, sparks, flames and other sources of ignition.

Incompatible Products

Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.

Hazardous Decomposition Products

Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

* * * **Section 11 - Toxicological Information** * * *

Acute Toxicity

Component Analysis - LD50/LC50

Tetrahydrofuran (109-99-9)

Inhalation LC50 Rat 53.9 mg/L 4 h; Inhalation LC50 Rat 180 mg/L 1 h; Oral LD50 Rat 1650 mg/kg

Methyl ethyl ketone (78-93-3)

Inhalation LC50 Mouse 32 g/m³ 4 h; Oral LD50 Rat 2737 mg/kg; Dermal LD50 Rabbit 6480 mg/kg

Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg

Cyclohexanone (108-94-1)

Inhalation LC50 Rat 10.7 mg/L 4 h; Inhalation LC50 Rat 8000 ppm 4 h; Oral LD50 Rat 800 mg/kg; Dermal LD50 Rabbit 948 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

May cause irritation with redness, itching and pain. Methyl ethyl ketone and cyclohexanone may be absorbed through the skin causing effects similar to those listed under inhalation.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.

Potential Health Effects: Ingestion

Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.

Potential Health Effects: Inhalation

Vapors or mists may cause mucous membrane and respiratory irritation, coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

Cyclohexanone has been positive in bacterial and mammalian assays. Acetone, methyl ethyl ketone and tetrahydrofuran are generally thought not to be mutagenic.

Carcinogenicity

A: General Product Information

In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure.

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

B: Component Carcinogenicity

Tetrahydrofuran (109-99-9)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

Acetone (67-64-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Cyclohexanone (108-94-1)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

PVC (Chloroethylene, polymer) (9002-86-2)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

Reproductive Toxicity

Methyl ethyl ketone and cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone and tetrahydrofuran has been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.

Specified Target Organ General Toxicity: Single Exposure

May cause respiratory irritation. Inhalation of high concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

This product is not expected to be toxic to aquatic organisms.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Tetrahydrofuran (109-99-9)

Test & Species

	Conditions
96 Hr LC50 Pimephales promelas	1970-2360 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	2700-3600 mg/L [static]
24 Hr EC50 Daphnia magna	5930 mg/L

Methyl ethyl ketone (78-93-3)

Test & Species

	Conditions
96 Hr LC50 Pimephales promelas	3130-3320 mg/L [flow-through]
48 Hr EC50 Daphnia magna	>520 mg/L
48 Hr EC50 Daphnia magna	5091 mg/L
48 Hr EC50 Daphnia magna	4025 - 6440 mg/L [Static]

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

Acetone (67-64-1)

Test & Species

96 Hr LC50 Oncorhynchus mykiss	4.74 - 6.33 mL/L
96 Hr LC50 Pimephales promelas	6210 - 8120 mg/L [static]
96 Hr LC50 Lepomis macrochirus	8300 mg/L
48 Hr EC50 Daphnia magna	10294 - 17704 mg/L [Static]
48 Hr EC50 Daphnia magna	12600 - 12700 mg/L

Conditions

Cyclohexanone (108-94-1)

Test & Species

96 Hr LC50 Pimephales promelas	481-578 mg/L [flow- through]
96 Hr LC50 Pimephales promelas	8.9 mg/L
96 Hr EC50 Chlorella vulgaris	20 mg/L
24 Hr EC50 Daphnia magna	800 mg/L

Conditions

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

DOT Information

For Greater than 1 liter (0.3 gal):

Shipping Name: Adhesives

UN #: 1133 Hazard Class: 3 Packing Group: II

Required Label(s): Flammable Liquid

For Less than 1 liter (0.3 gal):

Shipping Name: Consumer Commodity, ORM-D

IMDG Information

For Greater than 1 liter (0.3 gal):

Shipping Name: Adhesives

UN #: 1133 Hazard Class: 3 Packing Group: II

Required Label(s): Flammable Liquid

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

For Less than 1 liter (0.3 gal):

Shipping Name: Adhesives

UN #: 1133 Hazard Class: 3 Packing Group: II

Required Label(s): None (Limited Quantities are expected from labeling)

***** Section 15 - Regulatory Information *****

Regulatory Information

US Federal Regulations

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Tetrahydrofuran (109-99-9)

CERCLA: 1000 lb final RQ; 454 kg final RQ

Methyl ethyl ketone (78-93-3)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Acetone (67-64-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Cyclohexanone (108-94-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Tetrahydrofuran	109-99-9	Yes	Yes	Yes	Yes	Yes	No
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes	No
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes	No
Cyclohexanone	108-94-1	Yes	Yes	Yes	Yes	Yes	No
PVC (Chloroethylene, polymer)	9002-86-2	No	No	No	Yes	No	No

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Tetrahydrofuran	109-99-9	1 %
Methyl ethyl ketone	78-93-3	1 %
Acetone	67-64-1	1 %
Cyclohexanone	108-94-1	0.1 %

Additional Regulatory Information

A: General Product Information

This product contains trace amounts of chemicals known to the State of California to cause cancer. Under normal use conditions, exposure to these chemicals at levels above the State of California "No Significant Risk Level" (NSRL) are unlikely. The use of proper personal protective equipment (PPE) and ventilation guidelines noted in Section 8 will minimize exposure to these chemicals.

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Tetrahydrofuran	109-99-9	Yes	DSL	EINECS
Methyl ethyl ketone	78-93-3	Yes	DSL	EINECS
Acetone	67-64-1	Yes	DSL	EINECS
Cyclohexanone	108-94-1	Yes	DSL	EINECS
PVC (Chloroethylene, polymer)	9002-86-2	Yes	DSL	ELINCS

* * * Section 16 - Other Information * * *

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Other Information

NFPA and HMIS:

NFPA Hazard Signal: Health: 2 Flammability: 3 Reactivity: 1 Special: None

HMIS Hazard Signal: Health: 2* Flammability: 3 Reactivity: 1 PPE: G

Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources, and expressly do not make warranties, nor assume any liability for its use.

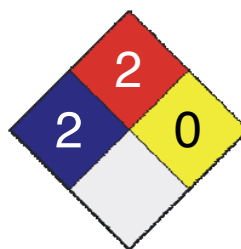
End of Sheet

1. Product and Company Identification

Product Name OLD ENGLISH® FURNITURE POLISH OIL - ALL SCENTS
UPC CODES Refer to Section 16
Product use Protectant
Manufacturer Reckitt Benckiser
 Morris Corporate Center IV
 399 Interpace Parkway
 P.O. Box 225
 Parsippany, NJ 07054-0225
 In Case of Emergency: 1-800-228-4722
 Transportation Emergencies: 24 Hour Number:
 North America: CHEMTREC: 1-800-424-9300
 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	2
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview DANGER
 HARMFUL OR FATAL IF SWALLOWED.
 MAY CAUSE EYE IRRITATION.
 DO NOT ingest.
 Contains petroleum distillates greater than 10%.

 KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

- Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.
- Eyes** Minimally irritating to eyes. Avoid contact with eyes.
- Skin** None expected during normal conditions of use. Not expected to be a skin sensitizer.
- Inhalation** None expected during normal conditions of use.
- Ingestion** Harmful or fatal if swallowed.
Do not ingest. Contains petroleum distillates.

Target organs Respiratory system. Eyes. Skin.

Chronic effects The finished product is not expected to have chronic health effects.

Signs and symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Distillates (petroleum) hydrotreated middle	64742-46-7	90 - 100

Inhalation	Remove to fresh air.
Ingestion	If swallowed, do NOT induce vomiting. Rinse mouth and drink a glass of water. IMMEDIATELY call a Physician or Poison Control Center.
Notes to physician	Contains petroleum distillates.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not available
Extinguishing media	
Suitable extinguishing media	Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	<p>DANGER HARMFUL OR FATAL IF SWALLOWED. Do not ingest. Contains petroleum distillates. Minimally irritating to eyes. Avoid contact with eyes. Use good industrial hygiene practices in handling this material. When using do not eat or drink.</p> <p>Use according to package label instructions. Always replace cap after use.</p> <p>HOUSEHOLDS WITH CHILDREN: THIS PRODUCT IS HARMFUL OR FATAL IF SWALLOWED. TO PROTECT CHILDREN, NEVER LEAVE BOTTLE OPEN OR IN THEIR REACH. REPLACE CAP TIGHTLY DURING AND AFTER USE.</p>
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition. Store containers upright and closed.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)

Exposure Limits

Distillates (petroleum), hydrotreated middle

ACGIH-TLV

Not established

OSHA-PEL

Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Not normally required under normal use conditions.
When handling in large quantities or responding to emergency situations, the use of appropriate eye protection is recommended.

Hand protection

No special requirements under normal use conditions.
Emergency responders should wear impermeable gloves.

Skin and body protection

Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Follow label directions carefully.

Respiratory protection

No special requirements under normal use conditions.
Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.
Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

Appearance

Clear.

Color

Golden Yellow

Form

Oily

Odor

Lemon or almond

Odor threshold

Not available

Physical state

Liquid

pH

Not available

Freezing point

Not available

Pour point

Not available

Boiling point

Not available

Flash point

154.99 °F (68.33 °C) Tagliabue

Evaporation rate

Not available

Flammability limits in air, lower, % by volume

Not available

Flammability limits in air, upper, % by volume

Not available

Vapor pressure

< 0.5 MmHg @ 20°C

Vapor density

Not available

Specific gravity

0.81 @ 20°C

Octanol/water coefficient

Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Distillates (petroleum), hydrotreated middle	4.6 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Distillates (petroleum), hydrotreated middle	7400 mg/kg rat

Effects of acute exposure

Eye	Minimally irritating to eyes. Avoid contact with eyes.
Skin	None expected during normal conditions of use. Not expected to be a skin sensitizer.
Inhalation	None expected during normal conditions of use.
Ingestion	Harmful or fatal if swallowed. Do not ingest. Contains petroleum distillates.
Sensitization	The finished product is not expected to have chronic health effects.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.
Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.
Synergistic Materials	Not available

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Fish Species Data		
Distillates (petroleum), hydrotreated middle	64742-46-7	96 Hr LC50 Pimephales promelas: 35 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >10000 mg/L [static]
Environmental effects	Not available	
Aquatic toxicity	Not available	
Persistence / degradability	Not available	
Bioaccumulation / accumulation	Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	Not available	

13. Disposal Considerations

Waste codes	Not available
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14. Transport Information

UN/ID N.o. Not applicable

U.S. Department of Transportation (DOT): Classification: Not regulated

Proper shipping name Not applicable

U.S. DOT Hazard Class Not applicable

Subsidiary Risk Not applicable

Packing group Not applicable

DOT RQ (lbs) Not applicable

ERG NO Not applicable

Transportation of Dangerous Goods (TDG - Canada): Classification: Not regulated

Proper shipping name Not applicable

Status Not applicable

Packing group Not applicable

IMDG (Marine Transport): Classification: Not regulated

Proper shipping name Not applicable

Class Not applicable

Subsidiary Risk Not applicable

Packing group Not applicable

IMDG Page Not applicable

Marine pollutant Not applicable

EMS Not applicable

MFAG Not applicable

Maximum Quantity Not applicable

IATA/ICAO (Air): Classification: Not regulated

Proper shipping name Not applicable

Class Not applicable

Subsidiary Risk: Not applicable

15. Regulatory Information

US Federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. CERCLA/SARA Hazardous Substances - Not applicable.	
Occupational Safety and Health Administration (OSHA)		
29 CFR 1910.1200 hazardous chemical	Yes	
CERCLA (Superfund) reportable quantity	None	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
Section 302 extremely hazardous substance	No	
Section 311 hazardous chemical	Yes	
Clean Air Act (CAA)	Not available	
Clean Water Act (CWA)	Not available	
State regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.	
Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer	This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.	
Further information	62338-77678 - OLD ENGLISH® - Almond Oil - 16 oz. - 0005592 62338-07325 - OLD ENGLISH® - Lemon Oil - 16 oz. - 890555 62338-01863 - OLD ENGLISH® - Lemon Oil - 8 oz. - 890555	
Issue date	01-Feb-2010	
Effective date	01-Feb-2010	
Prepared by	Reckitt Benckiser Regulatory Department 800-333-3899	
Other information	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.	



Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	OLD ENGLISH® OIL, (LEMON OIL, ORANGE OIL & RED OIL)	MSDS#	Not available.
Product Description	Moisturizing oil treatment for wood surfaces without wax or silicones.	Validation Date	8/5/2004
Manufacturer	Reckitt Benckiser North America, Inc. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, N.J. 07054-0225	Print Date	8/5/2004
Product Identifier	Not available.	In case of Emergency:	Telephone: 800-228-4722
Item Number	890555	Transportation Emergencies:	Chemtrec: 1-800-424-9300 (U.S. & Canada) Outside the U.S & Canada (North America), call: 703-527-3887
Formula Number	F/F 890555 (Lemon Oil), F/F 890556 (Red Oil) & [875-155] F/F 380090 (Orange Oil).		
UPC Number	Lemon Oil: 62338-01863 (8 oz.), 62388-07325 (16 oz.), 62338-75143 (16 oz.); Red Oil: 62338-01830 (8 oz.); Orange Oil: 62338-76944 (16 fl. oz.).		

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) MINERAL OIL, WHITE	8042-47-5	90-100	TWA: 5 (mg/m ³) from OSHA (PEL) INHALATION TWA: 5 STEL: 10 (mg/m ³) from ACGIH (TLV) INHALATION

Section 3. Hazards Identification

Emergency Overview	DANGER: Harmful or fatal if swallowed. DO NOT ingest. May be irritating to eyes. Avoid contact with eyes. Contains Petroleum Distillate. KEEP OUT OF REACH OF CHILDREN.
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Section 4. First Aid Measures

Eye Contact	If in eyes, immediately rinse eyes with plenty of water. Remove any contact lenses and continue rinsing for at least 15 minutes. If irritation persists, get medical attention..
Skin Contact	In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.
Inhalation	Remove to fresh air.
Ingestion	DO NOT induce vomiting. Contains petroleum distillates. Contact a physician or poison control center

Section 5. Fire and Explosion Data

Flammability	Not flammable. See Section 14 for any Shipping Classifications.
Flash Point	CLOSED CUP: Higher than 93.3°C (>200°F). (Tagliabue.).
Explosive Limits in Air	Not available.
Products of Combustion	Thermal decomposition products may include carbon monoxide, carbon dioxide and oxides of nitrogen.
Fire and Explosion Hazards	None known.
Fire Fighting Media and Instructions	CO2, dry chemical.
Special Fire Fighting Instructions	Water spray must be used with caution to prevent spread of flames. Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire.

Section 6. Accidental Release Measures

Accidental Spill	Small spills: Soak up with absorbent material and dispose of waste in an appropriate container. Wash area well with soapy water to avoid slippery condition. Large spills should be contained and collected for later disposal according to local, state or federal regulations. Wash area well with soapy water to avoid slippery condition.
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Section 7. Handling and Storage

Handling and Storage	DANGER: Harmful or fatal if swallowed. DO NOT ingest. May be irritating to eyes. Avoid contact with eyes. Contains Petroleum Distillate. Store in an area inaccessible to children and pets. Households with children: This product is harmful or fatal if swallowed. To protect children, never leave bottle open or in their reach, replace cap tightly during and after use. KEEP OUT REACH OF CHILDREN.
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Section 8. Exposure Controls/Personal Protection

Ventilation Requirements	No specific controls are needed.
Eye Protection	None required under normal use conditions. When handling in large quantities or responding to emergency situations, the use of appropriate eye protection is recommended.
Skin Protection	None normally required.
Respiratory Protection	None required
Other Protection	Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Work/Hygienic Practices	Wash thoroughly with soap and water after handling.

**OLD ENGLISH® OIL, (LEMON OIL,
ORANGE OIL & RED OIL)**

Page Number: 3

Boiling/Condensation Point Above 400 °F.**Specific Gravity** 0.82 @ 20/20 °C.**Vapor Pressure** < 0.5 mm Hg @ 20 °C.**Vapor Density** Not applicable.**Viscosity** Not available.**Solubility** Insoluble.**Physical Chemical Comments** Not available.**Section 10. Stability and Reactivity Data****Chemical Stability** The product is stable.**Conditions of Instability** None known.**Incompatibility with Various Substances** Avoid oxidizing agents.**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide and smoke on combustion.**Hazardous Polymerization** Will not occur.**Section 11. Toxicological Information****Exposure effects****Eye Contact** None expected under recommended use conditions.**Skin Contact** None expected under recommended use conditions.**Inhalation** Product not tested for inhalation toxicity.**Ingestion** Harmful or fatal if swallowed. Contains petroleum distillates.

NOTE: This warning is based on the potential for chemical pneumonitis if product is aspirated upon vomiting. The product itself is not toxic by ingestion.

Carcinogenicity Not listed as carcinogenic by OSHA, NTP or IARC.**Section 12. Ecological Information****Ecotoxicity** Not available.**Section 13. Disposal Considerations****Waste Disposal** Manage as waste oil and dispose of in accord with local, state and federal regulations.

Section 14. Transport Information

DOT Classification	Not regulated by DOT (United States).	
Proper Shipping Name	Not applicable.	
DOT Identification Number	Not applicable.	
Packing Group	Not applicable.	
Maritime Transportation	Not applicable.	
Hazardous Substances Reportable Quantity	Not applicable.	
Special Provisions for Transport	Not applicable.	
TDG Classification	Not regulated by TDG.	
ADR Classification	Not applicable.	
IMDG Classification	Not regulated by IMDG.	
IATA Classification	Not regulated by IATA.	

Section 15. Regulatory Information

Federal and State Regulations	<p>SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting:</p> <p>None</p> <p>California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:</p> <p>None</p>
Other Classifications	<p>WHMIS (Canada) CLASS D-2A: Material causing other toxic effects (VERY TOXIC).</p>

Section 16. Other Information

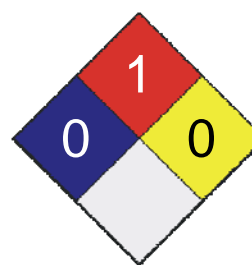
HMIS (U.S.A.)	<table border="1"> <tr> <td>Health Hazard</td> <td>0</td> </tr> <tr> <td>Fire Hazard</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Specific hazard</td> <td>0</td> </tr> </table>	Health Hazard	0	Fire Hazard	1	Reactivity	0	Specific hazard	0	National Fire Protection Association (U.S.A.)	<table border="1"> <tr> <td>Health</td> <td>0</td> <td>1</td> <td>0</td> <td>Fire Hazard</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Reactivity</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Specific hazard</td> </tr> </table>	Health	0	1	0	Fire Hazard					Reactivity					Specific hazard
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Specific hazard	0																									
Health	0	1	0	Fire Hazard																						
				Reactivity																						
				Specific hazard																						

1. Product and Company Identification

Product Name OLD ENGLISH® - Scratch Cover for Dark Wood
UPC CODES Refer to Section 16
CAS # Mixture
Product use Protectant
Manufacturer Reckitt Benckiser
 Morris Corporate Center IV
 399 Interpace Parkway
 P.O. Box 225
 Parsippany, NJ 07054-0225
 In Case of Emergency: 1-800-228-4722
 Transportation Emergencies: 24 Hour Number:
 North America: CHEMTREC: 1-800-424-9300
 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 0
Flammability	1
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview DANGER
 HARMFUL OR FATAL IF SWALLOWED. Contains petroleum distillates.

 KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects
Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes Not an eye irritant.
Skin None expected during normal conditions of use.
Inhalation Product not tested for inhalation toxicity.
Ingestion This product may be harmful or fatal if swallowed.
 NOTE: This warning is based on potential for chemical pneumonitis if product is aspirated upon vomiting. The product is not toxic by ingestion.

Target organs Respiratory system. Eyes. Skin.
Chronic effects The finished product is not expected to have chronic health effects.
Signs and symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Distillates (petroleum), hydrotreated middle	64742-46-7	60 - 70
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	30 - 40

4. First Aid Measures

First aid procedures
Eye contact As with any material contacting the eye, it is recommended to rinse the eyes thoroughly with water, remove contact lenses and continue flushing eyes for at least 15 minutes. If irritation occurs or persists, get medical attention.

Skin contact	In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.
Inhalation	Remove to fresh air.
Ingestion	If swallowed, do NOT induce vomiting. Call a physician immediately.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	<p>DANGER HARMFUL OR FATAL IF SWALLOWED. Use good industrial hygiene practices in handling this material. Use according to package label instructions. Always replace cap after use.</p> <p>HOUSEHOLDS WITH CHILDREN: THIS PRODUCT IS HARMFUL OR FATAL IF SWALLOWED. TO PROTECT CHILDREN, NEVER LEAVE BOTTLE OPEN OR IN THEIR REACH. REPLACE CAP TIGHTLY DURING AND AFTER USE.</p>
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition. Store containers upright and closed.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH-TLV Not established OSHA-PEL Not established
Distillates (petroleum), hydrotreated middle	ACGIH-TLV Not established OSHA-PEL Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Not normally required under normal use conditions.
When handling in large quantities or responding to emergency situations, the use of appropriate eye protection is recommended.

Hand protection

No special requirements under normal use conditions.
Emergency responders should wear impermeable gloves.

Skin and body protection

Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

Respiratory protection

No special requirements under normal use conditions.
Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.
Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

Appearance	Opaque. Liquid.
Color	brown
Form	Oily
Odor	Citrus
Odor threshold	Not available
Physical state	Liquid
pH	Not available
Freezing point	Not available
Pour point	Not available
Boiling point	> 400 °F (> 204.44 °C)
Flash point	> 199.94 °F (> 93.3 °C) Tagliabue
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	< 0.5 MmHg @ 20°C
Vapor density	Not available
Specific gravity	0.85 @ 20°C
Octanol/water coefficient	Not available
Solubility (H ₂ O)	Insoluble
Auto-ignition temperature	Not available
VOC (Weight %)	Not available

Pour point	Not available
Viscosity	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Distillates (petroleum), hydrotreated heavy naphthenic	2.18 mg/l/4h rat
Distillates (petroleum), hydrotreated middle	4.6 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Distillates (petroleum), hydrotreated heavy naphthenic	5000 mg/kg rat
Distillates (petroleum), hydrotreated middle	7400 mg/kg rat

Effects of acute exposure

Eye	Not an eye irritant.
Skin	None expected during normal conditions of use.
Inhalation	Product not tested for inhalation toxicity.
Ingestion	This product may be harmful or fatal if swallowed. NOTE: This warning is based on potential for chemical pneumonitis if product is aspirated upon vomiting. The product is not toxic by ingestion.

Sensitization The finished product is not expected to have chronic health effects.

Chronic effects The finished product is not expected to have chronic health effects.

Carcinogenicity The finished product is not expected to have chronic health effects.

Mutagenicity The finished product is not expected to have chronic health effects.

Reproductive effects The finished product is not expected to have chronic health effects.

Teratogenicity The finished product is not expected to have chronic health effects.

Synergistic Materials Not available

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	96 Hr LC50 Oncorhynchus mykiss: >5000 mg/L
Distillates (petroleum), hydrotreated middle	64742-46-7	96 Hr LC50 Pimephales promelas: 35 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >10000 mg/L [static]

Ecotoxicity - Water Flea Data

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	48 Hr EC50 Daphnia magna: >1000 mg/L
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Environmental effects Not available

Aquatic toxicity Not available

Persistence / degradability Not available

Bioaccumulation / accumulation Not available

Partition coefficient Not available

Mobility in environmental media Not available

Chemical fate information Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

UN/ID N.o. Not applicable

U.S. Department of Transportation (DOT): Classification: Not regulated

Proper shipping name Not applicable

U.S. DOT Hazard Class Not applicable

Subsidiary Risk Not applicable

Packing group Not applicable

DOT RQ (lbs) Not applicable

ERG NO Not applicable

Transportation of Dangerous Goods (TDG - Canada): Classification: Not regulated

Proper shipping name Not applicable

Status Not applicable

Packing group Not applicable

IMDG (Marine Transport): Classification: Not regulated

Proper shipping name Not applicable

Class Not applicable

Subsidiary Risk Not applicable

Packing group Not applicable

IMDG Page Not applicable

Marine pollutant Not applicable

EMS Not applicable

MFAG Not applicable

Maximum Quantity Not applicable

IATA/ICAO (Air): Classification:	Not regulated
Proper shipping name	Not applicable
Class	Not applicable
Subsidiary Risk:	Not applicable
Packing group	Not applicable
Maximum Quantity	Not applicable

15. Regulatory Information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information 62338-08046-8 - OLD ENGLISH® - Scratch Cover for Dark Wood - 8 OZ. - 890558

Issue date 21-Jan-2010

Effective date 15-Jan-2010

Prepared by Reckitt Benckiser Regulatory Department 800-333-3899

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

Material Safety Data Sheet



Date of issue 30 June 2013

Version 18.01

1. Product and company identification

Product name : PREMIUM S/C - OXFORD BROWN
Code : 59671
Supplier : PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272
Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)
Technical Phone Number : 1-800-441-9695 (8:00 am to 5:00 pm EST)

2. Hazards identification

Emergency overview : WARNING!
CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat.
Ingestion : May be harmful if swallowed.
Skin : May cause skin dryness and irritation.
Eyes : Irritating to eyes.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
Ingestion : No specific data.
Skin : Adverse symptoms may include the following:
irritation
dryness
cracking
Eyes : Adverse symptoms may include the following:
pain or irritation
watering
redness
Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (Section 11)

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Nepheline syenite	37244-96-5	10 - 30
ethanediol	107-21-1	1 - 5
carbon black respirable	1333-86-4	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6. Accidental release measures

Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite. To avoid the risks of fires, all contaminated materials should be placed in a metal container filled with water and sealed. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store below the following temperature: 32F / 0C.

8. Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	IPEL
Nepheline syenite	TWA	Not established	Not established	10 mg/m ³ TD	Not established	Not established
ethanediol	STEL	100 mg/m ³ C	Not established	100 mg/m ³ C	100 mg/m ³ C	Not established
carbon black respirable	TWA	3 mg/m ³	3.5 mg/m ³	3.5 mg/m ³	3.5 mg/m ³	Not established
	STEL	Not established	Not established	Not established	7 mg/m ³	Not established

Key to abbreviations

A	= Acceptable Maximum Peak	S	= Potential skin absorption
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	= Respiratory sensitization
C	= Ceiling Limit	SS	= Skin sensitization
F	= Fume	STEL	= Short term Exposure limit values
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	= Occupational Safety and Health Administration.	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		

Consult local authorities for acceptable exposure limits.

8 . Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Eyes** : Safety glasses with side shields.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Respiratory** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: 93.33°C (200°F)
- Color** : Not available.
- Odor** : Not available.
- pH** : Not available.
- Boiling/condensation point** : 37.22°C (99°F)
- Melting/freezing point** : Not available.
- Specific gravity** : 1.25
- Density (lbs / gal)** : 10.43
- Vapor pressure** : 2.3 kPa (17.2 mm Hg) [room temperature]
- Vapor density** : Not available.
- Volatility** : 66% (v/v), 52.45% (w/w)
- Evaporation rate** : 0.34 (butyl acetate = 1)
- Partition coefficient: n-octanol/water** : Not available.
- % Solid. (w/w)** : 47.55

10 . Stability and reactivity

- Stability** : Stable under recommended storage and handling conditions (see Section 7).
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials:,oxidizing materials,strong acids, strong alkalis
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanediol	LD50 Oral	Rat	4700 mg/kg	-
	LD50 Dermal	Rabbit	9.53 g/kg	-
carbon black respirable	LD50 Oral	Rat	>15400 mg/kg	-
	LD50 Dermal	Rabbit	>3 g/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Defatting irritant

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Target organs

: Contains material which may cause damage to the following organs: kidneys, heart, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Carcinogenicity

Carcinogenicity

: Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Classification

Product/ingredient name	ACGIH	IARC	NTP	OSHA
ethanediol	A4	-	-	-
carbon black respirable	A3	2B	-	-

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5
IARC: 1, 2A, 2B, 3, 4
NTP: Proven, Possible
OSHA: +
Not listed or regulated as a carcinogen: -

Teratogenicity

: Contains material which may cause birth defects, based on animal data.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanediol	Acute LC50 8050000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute LC50 >10000000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Chronic NOEC 6090000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14 . Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Additional information
UN	None.	Not regulated.	None.	-	-
IMDG	None.	Not regulated.	None.	-	-
DOT	None.	Not regulated.	None.	-	-

PG* : Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: ethanediol: 5000 lbs. (2270 kg);

15 . Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.

Australia inventory (AICS) : At least one component is not listed.

Canada inventory (DSL) : At least one component is not listed in DSL but all such components are listed in NDSL.

China inventory (IECSC) : At least one component is not listed.

Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.

Japan inventory (ENCS) : At least one component is not listed.

Korea inventory (KECI) : All components are listed or exempted.

New Zealand (NZIoC) : Substance Use Restricted

Philippines inventory (PICCS) : Not determined.

United States

U.S. Federal regulations :

SARA 302/304: ethylene oxide; fluorine; Formaldehyde

CERCLA: Hazardous substances.: ethanediol: 5000 lbs. (2270 kg);

SARA 311/312 SDS Distribution - Chemical Inventory - Hazard Identification:

Chemical name	CAS #	Acute	Chronic	Fire	Reactive	Pressure
ethanediol	107-21-1	Y	Y	N	N	N
carbon black respirable	1333-86-4	N	Y	N	N	N
Product as-supplied :		Y	Y	N	N	N

SARA 313

Supplier notification

Chemical name

: ethanediol

CAS number

107-21-1

Concentration

1 - 5

15. Regulatory information

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Canada

WHMIS (Canada) : Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Classification

Flammability : 1 **Health** : 2 **Reactivity** : 0

16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 * **Flammability** : 1 **Physical hazards** : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 2 **Flammability** : 1 **Instability** : 0

Date of previous issue : 5/8/2013.

Organization that prepared the MSDS : EHS

✔ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

MATERIAL SAFETY DATA SHEET

VOI 5353

The Valvoline Company

Page 001
Date Prepared: 01/14/02
Date Printed: 02/16/05
MSDS No: 505.0200299-007.004

PARTS MASTER DEXRON III/MERCON 12/1 QT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PARTS MASTER DEXRON III/MERCON 12/1 QT
SAP Material No: PM5353
General or Generic ID: PETROLEUM BASED-LUBRICATING OIL

Company

The Valvoline Company
P.O. Box 14000
Lexington, KY 40512

Telephone Numbers

Emergency: 1-800-274-5263
Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
ALIPHATIC PETROLEUM DISTILLATES TRANSMISSION FLUID PACKAGE	64742-65-0	73.0- 83.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Unlikely to cause eye irritation or injury.

Skin

Prolonged or repeated contact may dry and crack the skin. Additional symptoms of skin contact may include: acne. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects.

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways).

Target Organ Effects

No data

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 002
Date Prepared: 01/14/02
Date Printed: 02/16/05
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PARTS MASTER DEXRON III/MERCON 12/1 QT

Developmental Information

There are no data available for assessing risk to the fetus from maternal exposure to this material.

Cancer Information

This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin contact, Eye contact, Ingestion.

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 003
Date Prepared: 01/14/02
Date Printed: 02/16/05
MSDS No: 505.0200299-007.004

PARTS MASTER DEXRON III/MERCON 12/1 QT

5. FIRE FIGHTING MEASURES

Flash Point

365.0 F (185.0 C) COC

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Dense smoke may be generated while burning.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 004
Date Prepared: 01/14/02
Date Printed: 02/16/05
MSDS No: 505.0200299-007.004

PARTS MASTER DEXRON III/MERCON 12/1 QT

Storage

Do not store near extreme heat, open flame, or sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

Skin Protection

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines

Component

ALIPHATIC PETROLEUM DISTILLATES (64742-65-0)

OSHA VPEL 5.000 mg/m3 - TWA

ACGIH TLV 5.000 mg/m3 - TWA

TRANSMISSION FLUID PACKAGE

No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

No data

Vapor Pressure

No data

Specific Vapor Density

No data

Specific Gravity

.875 @ 60.00 F

Liquid Density

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 005
Date Prepared: 01/14/02
Date Printed: 02/16/05
MSDS No: 505.0200299-007.004

PARTS MASTER DEXRON III/MERCON 12/1 QT

Percent Volatiles (Including Water)

No data

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

No data

Color

RED

Odor

PETROLEUM

pH

No data

Viscosity

6.9	- 8.0	cst	@	100 C
29.0	- 42.6	cst	@	40 C
> 175.0	ratio			

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability

Stable.

Incompatibility

Avoid contact with: strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 006
Date Prepared: 01/14/02
Date Printed: 02/16/05
MSDS No: 505.0200299-007.004

PARTS MASTER DEXRON III/MERCON 12/1 QT

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate() Delayed() Fire() Reactive() Sudden Release of
Pressure()

SARA 313 Components - 40 CFR 372.65

None

International Regulations

Inventory Status

AICS (AUSTRALIA) The intentional ingredients of this product are listed.

CICS (CHINA) The intentional ingredients of this product are listed.

DSL (CANADA) The intentional ingredients of this product are listed.

ENECS (EUROPE) The intentional ingredients of this product are listed.

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 007
Date Prepared: 01/14/02
Date Printed: 02/16/05
MSDS No: 505.0200299-007.004

PARTS MASTER DEXRON III/MERCON 12/1 QT

State and Local Regulations
California Proposition 65
None

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

MATERIAL SAFETY DATA SHEET

NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.					
IDENTITY (As shown on Label or package) PLASTI DIP SPRAY (ALL COLORS)			PART NO. IF APPLICABLE		
SECTION I					
MANUFACTURER'S NAME Plasti Dip International Inc.			EMERGENCY PHONE No. USA only: 1-800-424-9300 INT'L: 703-527-3887		
ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE) 3920 Pheasant Ridge Drive Blaine, MN 55449			REVISION # 0004 MANUFACTURER'S PHONE No. FOR INFORMATION 1-763-785-2156 DATE MSDS WAS PREPARED February 2, 2010		
SECTION II - HAZARDOUS INGREDIENTS INFORMATION. All Health Hazards which comprise 1% or greater of the composition and all carcinogens if 0.1% of the composition or greater.					
HAZARDOUS COMPONENTS CHEMICAL and IDENTITY AND COMMON NAME (S)	% Wt. (OPTIONAL)	CAS NO.	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMEND
Propane	25-27	74-98-6	1000 ppm	1000 ppm	None
VM&P Naphtha	23-25	64742-89-8	300 ppm	300 ppm	None
Heptane	13-15	426260-76-6	500 ppm	400 ppm	None
N-Butane	8-10	106-97-8	800 ppm	800 ppm	None
Xylene	5-7	1330-20-7	100 ppm	100 ppm	None
Methyl Ethyl Ketone	2-4	78-93-3	200 ppm	200 ppm	None
Methyl n-Amyl Ketone	2-4	110-43-0	100 ppm	50 ppm	None
Ethylbenzene	1-2	100-41-4	100 ppm	100 ppm	None
Carbon Black (Black Only)	0.1-1	1333-86-4	3.5 mg/m ³	3.5 mg/m ³	None
SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS					
BOILING POINT <1 - 285 °F	SPECIFIC GRAVITY (H₂O =1) 0.675		APPROXIMATE WEIGHT PER GALLON (LBS) 5.57		
VAPOR PRESSURE 760 mm Hg @ 20 °C	VAPOR DENSITY (AIR = 1) Heavier than Air		EVAPORATION RATE (BUTYL ACETATE =1) >4.6		
SOLUBILITY IN WATER N/A	% VOLATILE 87..2957%		OTHER (IF ANY)		
APPEARANCE AND ODOR Various colors, syrupy liquid, with solvent odor					
SECTION IV-FIRE AND EXPLOSION HAZARD DATA					
FLASH POINT Propellant < -25 °F		FLAMMABLE LIMITS	LEL 0.9	UEL 11.5	
EXTINGUISHING MEDIA Carbon Dioxide, Dry Chemical, or Foam					
SPECIAL FIRE FIGHTING PROCEDURES Self contained breathing apparatus with a full face piece, operated in pressure demand or other positive pressure mode.					
UNUSUAL FIRE AND EXPLOSION HAZARDS This material is flammable and may be ignited by heat, sparks, flame or static electricity. Level 3 aerosol (NFPA 30B). Contents under pressure if heated over 120°F aerosol can could explode, even when empty.					
HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMPOSITION Carbon Dioxide and/or Carbon Monoxide					
EXPLOSIVE LIMITS (% BY VOLUME IN AIR) 0.9 - 11.5					
SECTION V - OPTIONAL HAZARD RATINGS IDENTIFICATION					
HAZARD RATING 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT **SEE SECTION IV			National Fire Protection Association (NFPA) FIRE <u>4</u> REACTIVITY <u>0</u> HEALTH <u>2</u> SPECIAL HAZARDS <u>NONE</u>		

SECTION VI - REACTIVITY AND STABILITY DATA			
STABILITY	UNSTABLE	STABLE	X
INCOMPATIBILITY (Materials to Avoid) Strong acids, bases, oxidizing agents, selected amines with alkali metals and halogens.			
HAZARDOUS DECOMPOSITION OR BY PRODUCTS Carbon Monoxide and/or Carbon Dioxide			
HAZARDOUS POLYMERIZATION	MAY OCCUR	WILL NOT OCCUR	X
		CONDITIONS TO AVOID	
Avoid contact with heat, sparks, and open flame. Product may explode if heated.			
SECTION VII - HEALTH HAZARD DATA			
ROUTES OF ENTRY		INHALATION?	YES
		SKIN?	YES
		INGESTION?	YES
		EYES?	YES
HEALTH HAZARDS	ACUTE	X	
	CHRONIC	X	
CARCINOGENICITY: IARC 2B			
SIGNS AND SYMPTOMS OF EXPOSURE			
Headache, Dizziness, Drowsiness, Fatigue, Irregular Heartbeat, Skin and Eye Irritation.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE			
EMERGENCY AND FIRST AID PROCEDURES			
Ingestion: Contact Physician or Poison Control Immediately.			
Inhalation: Remove to fresh air. Administer Oxygen or Artificial Respiration if Necessary.			
Eye Contact: Flush with large amounts of water. If irritation persists, contact Physician.			
Skin: Wash with soap and water.			
SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED			
Wipe up with floor absorbent. Transfer to hood. Prevent run-off to sewers.			
Eliminate all sources of ignition.			
Ventilate to maintain exposure below PELs.			
WASTE DISPOSAL METHODS Dispose of product in accordance with local, county, state and federal regulations.			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE			
Keep away from sparks, flames, and heat sources.			
Do Not store above 120°F			
Level 3 aerosol (NFPA 30B).			
OTHER PRECAUTIONS			
Keep Container Closed When Not In Use. Store this product with adequate ventilation in cool areas.			
Never place aerosol in flame or fire, Even when Empty.			
SECTION IX - CONTROL MEASURES			
RESPIRATORY PROTECTION (SPECIFY TYPE) Depending on the Airborne concentration, use a Respirator with appropriate NIOSH approved cartridge or supplied air equipment.		PROTECTIVE GLOVES	
		Impervious Gloves	
VENTILATION	LOCAL EXHAUST Supplemental (if needed)	SPECIAL None	
	MECHANICAL (GENERAL) To maintain exposure below PELs	OTHER None	
EYE PROTECTION		OTHER PROTECTIVE CLOTHING OR EQUIPMENT	
Chemical splash goggles, or approved eye protection.		Chemical Apron/Eye bath/Safety Shower	
WORK HYGIENIC PRACTICES Wash thoroughly after handling.			
SECTION X - TRANSPORTATION INFORMATION			
DOT PROPER SHIPPING NAME Aerosols		DOT HAZARD CLASS 2.1	
DOT UN NUMBER UN1950		DOT PACKING GROUP N/A	
IATA PROPER SHIPPING NAME Aerosols, flammable		IATA HAZARD CLASS 2.1	
IATA UN NUMBER UN1950		IATA PACKING GROUP N/A	
SECTION XI - 313 SUPPLIER NOTIFICATION			
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT -TO-KNOW ACT OF 1986, 40 CFR 372, (see table on page 1 for CAS # and percent by weight). Xylene and Ethylbenzene			
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.			

This is the "back" when printed in duplex. Page 2 of 2 pages if not duplex.

Prepared By: Michael N Hindin

Permatex, inc.
10 Columbus Blvd.
Hartford, CT 06106 USA
Telephone: 1-87-Permatex
(877) 376-2839
Emergency: 800-255-3924 (ChemTel)
International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: LARGE DIAMETER THREADLOCKER RED 10ML
Item No: 27710
Product Type: Anaerobic

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
METHACRYLATE MONOMER 25852-47-5	40-70	Not listed	Not listed
POLYESTER RESIN MIXTURE	30-50	Not listed	Not listed
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	<3	Not listed	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. At elevated temperatures may cause irritation of the respiratory tract. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. High concentrations may cause central nervous system (CNS) depression. May cause skin sensitization.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Repeated skin contact may cause allergic skin reactions. Ingestion may cause nausea and vomiting. Inhalation overexposure may cause irritation, coughing and flu-like symptoms. May cause pain, redness or swelling of the eyes and excessive blinking and tear production.

Medical Conditions Recognized as Being Aggravated by Exposure: Preexisting skin disorders.

4. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.

Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): >200°F TCC

Recommended Extinguishing Media: Dry chemical, Carbon dioxide, Foam

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus.

Hazardous Products of Combustion: Oxides of carbon

Unusual Fire/Explosion Hazards: None.

Lower Explosive Limit: Not determined

Upper Explosive Limit: Not determined

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Store below 100°F.

Handling: Avoid prolonged skin contact. Keep away from eyes. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Safety glasses.
Skin:	Neoprene or nitrile gloves recommended.
Ventilation:	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red liquid
Odor:	Mild
Boiling Point:	>200°F
pH:	Does not apply
Solubility in Water:	Insoluble
Specific Gravity:	1.07-1.17
VOC(Wt.%):	<3%
Vapor Pressure:	Not determined
Vapor Density (Air=1):	>1
Evaporation Rate:	Not determined

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal conditions
Hazardous Polymerization:	Will not occur
Incompatibilities:	Strong oxidizers
Conditions to Avoid:	Heat.
Hazardous Products of Combustion:	Oxides of carbon

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:	Disposal should be made in accordance with federal, state and local regulations..
US EPA Waste Number:	NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Ground Transport (DOT)

DOT Shipping Name:	Not regulated
Hazard Class:	None
UN/ID Number:	None

IATA

Proper Shipping Name:	Not regulated
Class or Division:	None
UN/ID Number:	None

IMDG

Proper Shipping:	Not regulated
Hazard Class:	None
UN Number:	None

Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

DIMETHYLBENZYL HYDROPEROXIDE

Product Name: LARGE DIAMETER THREADLOCKER
RED 10ML

Item No: 27710

California Proposition 65: No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 1, REACTIVITY 1.

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106

Revision Date: January 13, 2011

Revision 2

Number:

Telephone No.: 1-87-Permatex (877) 376-2839

Permatex, inc.
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 Hartford, CT 06106 USA
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 (877) 376-2839
 Emergency: 800-255-3924 (ChemTel)
 International Emergency: +01-813-248-0585

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: SURFACE INSENSITIVE THREADLOCKER BLUE 6ML
Item No: 24027
Product Type: Anaerobic

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
POLYGLYCOL DIMETHACRYLATE 25852-47-5	50-70	Not listed	Not listed
TETRAETHYLENE GLYCOL HEXOATE 18268-70-7	10-20	Not listed	Not listed
POLYVINYL ACETATE 9003-20-7	<5	Not listed	Not listed
POLYETHYLENE HOMOPOLYMER 9002-88-4	<3	Not listed	Not listed
PROPYLENE GLYCOL 57-55-6	<5	Not listed	Not listed
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	<2	Not listed	Not listed
ACRYLIC ACID 79-10-7	0.1-1.0	2 ppm	10 ppm; 30 mg/m ³

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. At elevated temperatures may cause irritation of the respiratory tract. Irritates mucous membranes. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. High concentrations may cause central nervous system (CNS) depression. May cause skin sensitization.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Repeated skin contact may cause allergic skin reactions. Ingestion may cause nausea and vomiting. Inhalation overexposure may cause irritation, coughing and flu-like symptoms. May cause pain, redness or swelling of the eyes and excessive blinking and tear production.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
POLYVINYL ACETATE 9003-20-7	<5			Group 3: Vol.19, Supp 7; 1987
POLYETHYLENE HOMOPOLYMER 9002-88-4	<3			Monograph 19, Supplement 7 (1987)
ACRYLIC ACID 79-10-7	0.1-1.0		A4 - Not Classifiable as a Human Carcinogen	Group 3 Monograph 71, 1999; Supplement 7, 1987; Monograph 19, 1979

Medical Conditions Recognized as Being Aggravated by Exposure: May aggravate preexisting dermatitis.

4. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.

Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°):	>200°F PMCC
Recommended Extinguishing Media:	Carbon dioxide, Dry chemical, Foam
Special Fire-Fighting Procedures:	Firefighters should wear self-contained breathing apparatus.
Hazardous Products of Combustion:	Oxides of carbon
Unusual Fire/Explosion Hazards:	None reasonably foreseeable.
Lower Explosive Limit:	Not determined
Upper Explosive Limit:	Not determined

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Store below 100°F.
Handling: Avoid prolonged skin contact. Keep away from eyes. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
Respiratory Protection: An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid
Odor: Mild
Boiling Point: >300°F
pH: Does not apply
Solubility in Water: Insoluble
Specific Gravity: 1.00-1.15
VOC(Wt.%): <3%
Vapor Pressure: Not determined
Vapor Density (Air=1): >1
Evaporation Rate: Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal conditions
Hazardous Polymerization: Will not occur
Incompatibilities: Strong oxidizers, free radical initiators, inert gases, Peroxides
Conditions to Avoid: Heat.
Hazardous Products of Combustion: Oxides of carbon

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations..
US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)
Ground Transport (DOT)
DOT Shipping Name: Not regulated

14. TRANSPORTATION INFORMATION

Hazard Class: None
UN/ID Number: None

IATA

Proper Shipping Name: Not regulated
Class or Division: None
UN/ID Number: None

IMDG

Proper Shipping: Not regulated
Hazard Class: None
UN Number: None

Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

DIMETHYLBENZYL HYDROPEROXIDE

California Proposition 65: No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 1, REACTIVITY 1.

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety
Company: Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106

Revision Date: April 01, 2011

Revision 2

Number:

Telephone No.: 1-87-Permatex (877) 376-2839

Material Safety Data Sheet



Date of issue 20 December 2012

Version 16

1. Product and company identification

Product name : INT/EXT FLAT BLACK HP
Code : 6-753
Supplier : PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272
Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)
Technical Phone Number : 1-800-441-9695 (8:00 am to 5:00 pm EST)

2. Hazards identification

Emergency overview : WARNING!
MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation : May be harmful if inhaled.
Ingestion : May be harmful if swallowed.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.

Over-exposure signs/symptoms

This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications.

Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (Section 11)

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Quartz (SiO ₂) (<10 microns)	14808-60-7	7 - 13
Quartz (SiO ₂) (>10 microns)	14808-60-7	5 - 10
crystalite	14464-46-1	1 - 5
Kieselguhr, soda ash flux-calcined	68855-54-9	1 - 5
Carbon black	1333-86-4	0.5 - 1.5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not swallow. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store below the following temperature: 32F / 0C.

8. Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
Quartz (SiO ₂) (<10 microns)	TWA	0.025 mg/m ³ R	10 mg/m ³ R Z 30 mg/m ³ TD Z 250 mppcf R Z	0.1 mg/m ³ R	0.1 mg/m ³ R	Not established
Quartz (SiO ₂) (>10 microns)	TWA	0.025 mg/m ³ R	10 mg/m ³ R Z 30 mg/m ³ TD Z 250 mppcf R Z	0.1 mg/m ³ R	0.1 mg/m ³ R	Not established
crystalite	TWA	0.025 mg/m ³ R	250 mppcf R Z 10 mg/m ³ R Z 30 mg/m ³ TD Z	0.05 mg/m ³ R	0.05 mg/m ³	Not established
Kieselguhr, soda ash flux-calcined	TWA	Not established	Not established	Not established	10 mg/m ³ 3 mg/m ³ R	Not established
Carbon black	TWA	3 mg/m ³	3.5 mg/m ³	3.5 mg/m ³	3.5 mg/m ³	Not established
	STEL	Not established	Not established	Not established	7 mg/m ³	Not established

Key to abbreviations

A	= Acceptable Maximum Peak	S	= Potential skin absorption
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	= Respiratory sensitization
C	= Ceiling Limit	SS	= Skin sensitization
F	= Fume	STEL	= Short term Exposure limit values
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	= Occupational Safety and Health Administration.	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		

Consult local authorities for acceptable exposure limits.

8 . Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Engineering measures** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Eyes** : Safety glasses with side shields.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Respiratory** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: >93.33°C (>200°F)
- Color** : Not available.
- Odor** : Not available.
- pH** : Not available.
- Boiling/condensation point** : 37.22°C (99°F)
- Melting/freezing point** : Not available.
- Specific gravity** : 1.23
- Density (lbs / gal)** : 10.26
- Vapor pressure** : 2.3 kPa (17.5 mm Hg) [room temperature]
- Vapor density** : Not available.
- Volatility** : 66% (v/v), 53.64% (w/w)
- Evaporation rate** : 0.35 (butyl acetate = 1)
- Partition coefficient: n-octanol/water** : Not available.
- % Solid. (w/w)** : 46.36

10 . Stability and reactivity

- Stability** : Stable under recommended storage and handling conditions (see Section 7).
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials: acids, oxidizing materials, strong alkalis
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbon black	LD50 Oral LD50 Dermal	Rat Rabbit	>15400 mg/kg >3 g/kg	- -

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Target organs

- : Contains material which causes damage to the following organs: liver, spleen, bone marrow.
- : Contains material which may cause damage to the following organs: kidneys, lungs, upper respiratory tract, eyes, testes.

Carcinogenicity

Carcinogenicity : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Classification

Product/ingredient name	ACGIH	IARC	NTP	OSHA
Quartz (SiO ₂) (<10 microns)	A2	1	Proven.	-
Quartz (SiO ₂) (>10 microns)	A2	1	Proven.	-
crystalite	A2	1	Proven.	-
Kieselguhr, soda ash flux-calcined	-	3	-	-
Carbon black	A3	2B	-	-

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5
IARC: 1, 2A, 2B, 3, 4
NTP: Proven, Possible
OSHA: +
Not listed or regulated as a carcinogen: -

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

13 . Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14 . Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Additional information
UN	None.	Not regulated.	None.	-	-
IMDG	None.	Not regulated.	None.	-	-
DOT	None.	Not regulated.	None.	-	-

PG* : Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: No products were found.

15 . Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.

Australia inventory (AICS) : All components are listed or exempted.

Canada inventory (DSL) : All components are listed or exempted.

China inventory (IECSC) : All components are listed or exempted.

Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.

Japan inventory (ENCS) : Not determined.

Korea inventory (KECI) : At least one component is not listed.

New Zealand (NZIoC) : Substance Use Restricted

Philippines inventory (PICCS) : At least one component is not listed.

United States

U.S. Federal regulations :

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Quartz (SiO₂) (<10 microns); cristobalite; Quartz (SiO₂) (>10 microns); Carbon black

CERCLA: Hazardous substances.: No products were found.

SARA 311/312 MSDS Distribution - Chemical Inventory - Hazard Identification:

<u>Chemical name</u>	<u>CAS #</u>	<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Reactive</u>	<u>Pressure</u>
<input checked="" type="checkbox"/> Quartz (SiO ₂) (<10 microns)	14808-60-7	N	Y	N	N	N
Quartz (SiO ₂) (>10 microns)	14808-60-7	N	Y	N	N	N
cristobalite	14464-46-1	N	Y	N	N	N
Kieselguhr, soda ash flux-calcined	68855-54-9	N	N	N	N	N
Carbon black	1333-86-4	N	Y	N	N	N
Product as-supplied :		N	Y	N	N	N

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Canada

WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).

Mexico

Classification

Flammability : 1 **Health** : 1 **Reactivity** : 0

16 . Other information

Hazardous Material Information System (U.S.A.)

Health : 1 * Flammability : 1 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 1 Flammability : 1 Instability : 0

Date of previous issue : 9/27/2012.

Organization that prepared the MSDS : EHS

✔ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Material Safety Data Sheet



Date of issue 21 January 2013

Version 20

1. Product and company identification

Product name : EXTERIOR SATIN-BLACK
Code : 76-151
Supplier : PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272
Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)
Technical Phone Number : 1-800-441-9695 (8:00 am to 5:00 pm EST)

2. Hazards identification

Emergency overview : WARNING!
MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED OR SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
Do not get on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation : May be harmful if inhaled.
Ingestion : May be harmful if swallowed.
Skin : May cause an allergic skin reaction.
Eyes : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data.
Ingestion : No specific data.
Skin : Adverse symptoms may include the following:
irritation
redness
Eyes : No specific data.

Medical conditions aggravated by over-exposure : Pre-existing skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (Section 11)

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
█ Nepheline syenite	37244-96-5	3 - 7
Carbon black	1333-86-4	0.5 - 1.5
2,2'-oxybisethanol ethanediol	111-46-6	0.5 - 1.5
octhilinone (ISO)	107-21-1	0.1 - 1
	26530-20-1	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not swallow. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store below the following temperature: 32F / 0C.

8. Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
Nepheline syenite	TWA	Not established	Not established	10 mg/m ³ TD	Not established	Not established
Carbon black	TWA	3 mg/m ³	3.5 mg/m ³	3.5 mg/m ³	3.5 mg/m ³	Not established
	STEL	Not established	Not established	Not established	7 mg/m ³	Not established
2,2'-oxybisethanol	TWA	Not established	Not established	Not established	Not established	10 mg/m ³
ethanediol	STEL	100 mg/m ³ C	Not established	100 mg/m ³ C	100 mg/m ³ C	Not established

Key to abbreviations

A	= Acceptable Maximum Peak	S	= Potential skin absorption
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	= Respiratory sensitization
C	= Ceiling Limit	SS	= Skin sensitization
F	= Fume	STEL	= Short term Exposure limit values
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	= Occupational Safety and Health Administration.	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8 . Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Eyes** : Safety glasses with side shields.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : butyl rubber
- Respiratory** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: >93.33°C (>200°F)
- Color** : Not available.
- Odor** : Not available.
- pH** : Not available.
- Boiling/condensation point** : >37.78°C (>100°F)
- Melting/freezing point** : Not available.
- Specific gravity** : 1.09
- Density (lbs / gal)** : 9.1
- Vapor pressure** : 2.3 kPa (17.3 mm Hg) [room temperature]
- Vapor density** : Not available.
- Volatility** : 72% (v/v), 65.96% (w/w)
- Evaporation rate** : 0.33 (butyl acetate = 1)
- Partition coefficient: n-octanol/water** : Not available.
- % Solid. (w/w)** : 34.04

10 . Stability and reactivity

- Stability** : Stable under recommended storage and handling conditions (see Section 7).
Conditions to avoid : No specific data.
Materials to avoid : Reactive or incompatible with the following materials:.,acids,oxidizing materials,strong alkalis
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbon black	LD50 Oral	Rat	>15400 mg/kg	-
	LD50 Dermal	Rabbit	>3 g/kg	-
2,2' -oxybisethanol	LD50 Oral	Rat	12000 mg/kg	-
	LD50 Dermal	Rabbit	11890 mg/kg	-
ethanediol	LD50 Oral	Rat	4700 mg/kg	-
	LD50 Dermal	Rabbit	9.53 g/kg	-
octhiline (ISO)	LD50 Oral	Rat	0.55 g/kg	-
	LD50 Dermal	Rabbit	0.69 g/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Target organs

: Contains material which may cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract, skin, eyes.

Carcinogenicity

Carcinogenicity : Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Classification

Product/ingredient name	ACGIH	IARC	NTP	OSHA
Carbon black	A3	2B	-	-
ethanediol	A4	-	-	-

Carcinogen Classification code:
 ACGIH: A1, A2, A3, A4, A5
 IARC: 1, 2A, 2B, 3, 4
 NTP: Proven, Possible
 OSHA: +
 Not listed or regulated as a carcinogen: -

Teratogenicity

: Contains material which may cause birth defects, based on animal data.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
2,2' -oxybisethanol	Acute LC50 75200000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
ethanediol	Acute LC50 80500000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute LC50 >10000000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

12 . Ecological information

octhiline (ISO)	Chronic NOEC 6090000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute LC50 140 to 202 ppb Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute LC50 160 to 188 ppb Marine water	Fish - Sheepshead minnow - Cyprinodon variegatus	96 hours
	Acute EC50 180 to 240 ppb Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Chronic NOEC >0.08 mg/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

13 . Disposal considerations**Waste disposal**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14 . Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Additional information
UN	None.	Not regulated.	None.	-	-
IMDG	None.	Not regulated.	None.	-	-
DOT	None.	Not regulated.	None.	-	-

PG* : Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: ethanediol: 5000 lbs. (2270 kg);

15 . Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.

Australia inventory (AICS) : All components are listed or exempted.

Canada inventory (DSL) : All components are listed or exempted.

China inventory (IECSC) : All components are listed or exempted.

Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.

Japan inventory (ENCS) : Not determined.

Korea inventory (KECI) : At least one component is not listed.

New Zealand (NZIoC) : Substance Use Restricted

Philippines inventory (PICCS) : At least one component is not listed.

15. Regulatory information

United States

U.S. Federal regulations :

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: 2,2'-oxybisethanol; Carbon black

CERCLA: Hazardous substances.: ethanediol: 5000 lbs. (2270 kg);

SARA 311/312 MSDS Distribution - Chemical Inventory - Hazard Identification:

Chemical name	CAS #	Acute	Chronic	Fire	Reactive	Pressure
Carbon black	1333-86-4	N	Y	N	N	N
2,2'-oxybisethanol	111-46-6	N	N	N	N	N
ethanediol	107-21-1	Y	Y	N	N	N
octhilinone (ISO)	26530-20-1	Y	N	N	N	N
Product as-supplied :		Y	Y	N	N	N

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Canada

WHMIS (Canada) : Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Classification

Flammability : 1 **Health :** 2 **Reactivity :** 0

16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 * **Flammability :** 1 **Physical hazards :** 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 2 **Flammability :** 1 **Instability :** 0

Date of previous issue : 9/27/2012.

Organization that prepared the MSDS : EHS

☑ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

ASHLAND

SAFETY DATA SHEET

PLIOBOND® 20 ADHESIVE 571656

Page: 1
Revision Date: 03/26/2007
Print Date: 4/27/2007
MSDS Number: A-1
Version: 1.1

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland
P.O. Box 2219
Columbus, OH 43216

Regulatory Information Number
Telephone
Emergency telephone number

1-800-325-3751
614-790-3333
1-800-ASHLAND
(1-800-274-5263)

Product name: PLIOBOND® 20 ADHESIVE (GENERAL PURPOSE/INDUSTRIAL)
Product code: 571656
Product Use Description: No data

Packaged & Marketed Nationally by
W.J. RUSCOE COMPANY
485 Kenmore Blvd. • Akron, Ohio 44301
330-253-8148 • TOLL FREE 800-293-8148
FAX 330-253-2933

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, tan

WARNING! Flammable Liquid, Highly toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Corrosive to skin, Corrosive to eyes, Carcinogen.

Potential Health Effects

Routes of Exposure

Inhalation, Skin contact, Eye Contact, Ingestion

Eye Contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin Contact

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects)

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

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Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness)

Target Organs

Based on animal studies, exposure to methyl ethyl ketone (MEK) increases the onset of peripheral neuropathy caused by exposure to methyl butyl ketone (MBK), and/or n-hexane, and/or ethyl butylketone. MEK alone has not been shown to cause peripheral neuropathy. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects

Carcinogenicity

Human studies have associated nasopharyngeal cancers (area of the upper throat behind the nose) and possibly other respiratory cancers (nasal cavity and sinuses) with formaldehyde exposure in the workplace. Although the evidence is not conclusive, some studies suggest an association between workplace formaldehyde exposure and leukemia. In studies in rats, inhalation of formaldehyde has caused nasal tumors, while ingestion in drinking water has caused leukemia and gastrointestinal tract tumors. Formaldehyde is listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) and the Occupational Safety and Health Administration (OSHA).

Reproductive Hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain.

Other Information

No data

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
METHYL ETHYL KETONE	78-93-3	>=70-<80%
PHENOL	108-95-2	>=1-<1.5%
ORTHO CRESOL	95-48-7	>=0.1-<0.5%
FORMALDEHYDE	50-00-0	>=0.1-<0.5%

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to Physician

Hazards: This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water mist, dry powder, foam, carbon dioxide (CO2)

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Hazardous Combustion Products

May form: carbon dioxide and carbon monoxide, hydrogen cyanide, nitrogen compounds, phenols, various hydrocarbons

Precautions for Fire-Fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point.

Flammability Class for Flammable Liquids

Flammable Liquid Class IB

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Environmental Precautions

No data

Methods for Cleaning Up

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

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Storage
No data

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

METHYL ETHYL KETONE		78-93-3
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	300 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	590 mg/m3
NIOSH	Short term exposure limit	300 ppm
NIOSH	Short term exposure limit	885 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	590 mg/m3
PHENOL		108-95-2
ACGIH	time weighted average	5 ppm
NIOSH	Recommended exposure limit (REL):	5 ppm
NIOSH	Recommended exposure limit (REL):	19 mg/m3
NIOSH	Ceiling Limit Value and Time Period (if specified):	15.6 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	60 mg/m3
OSHA Z1	Permissible exposure limit	5 ppm
OSHA Z1	Permissible exposure limit	19 mg/m3
FORMALDEHYDE		50-00-0
ACGIH	Ceiling Limit Value:	0.3 ppm
NIOSH	Recommended exposure limit (REL):	0.016 ppm
NIOSH	Recommended exposure limit (REL):	0.016 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.1 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.1 ppm
OSHA	time weighted average	0.75 ppm
OSHA	Short term exposure limit	2 ppm
OSHA	OSHA Action level:	0.5 ppm

General Advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical

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concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin and Body Protection

To prevent repeated or prolonged skin contact, wear impervious clothing and boots. Wear resistant gloves such as: Natural Rubber

Respiratory Protection

If workplace exposure limit(s) of product is exceeded (see exposure guidelines), a NIOSH approved air-purifying particulate/organic vapor/acid gas combination cartridge is recommended in the absence of proper environmental controls or when there is a potential for dust/vapor inhalation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	tan
Odour	No data
Boiling point/range	176 °F / 80 °C @ 760 mmHg
pH	No data
Flash point	23 °F / -5 °C Tag open cup
Evaporation rate	1 Ethyl Ether
Explosion limits	2.0 %(V) 12.0 %(V)
Vapour pressure	71.0000 mmHg @ 68.00 °F / 20.00 °C
Vapour density	2.5
Density	0.8629 g/cm ³ @ 77.00 °F / 25.00 °C 7.18 lb/gal @ 77.00 °F / 25.00 °C
Solubility	No data
Partition coefficient (n-octanol/water)	No data
Autoignition temperature	No data

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10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to Avoid

Avoid contact with:

Incompatible Products

Avoid contact with: strong oxidizing agents

Hazardous Decomposition Products

May form: carbon dioxide and carbon monoxide, hydrogen cyanide, nitrogen compounds, phenols, various hydrocarbons

Hazardous Reactions

Product will not undergo hazardous polymerization.

Thermal Decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity

METHYL ETHYL KETONE LD 50 Mouse: 670 mg/kg LD 50 Rat: 2,300 - 3,500 mg/kg

PHENOL LD 50 Rat: 317 mg/kg LD 50 Mouse: 270 mg/kg
LD 50 Rat: 317 mg/kg LD 50 Dog: 500 mg/kg
LD 50 Cat: 100 mg/kg LD 50 Rat: 530 mg/kg

ORTHO CRESOL LD 50 Rat: 120 mg/kg

FORMALDEHYDE LD 50 Mouse: 42 mg/kg LD 50 Rat: 100 mg/kg

Acute Inhalation Toxicity

METHYL ETHYL KETONE LC 50 Rat: 11,700 mg/l, 4 h

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PHENOL	LC 50 Rat: 316 mg/m ³ , 4 h
ORTHO CRESOL	LC 50 Mouse: 0.179 mg/l, LC 50 Rat: 1,220 mg/m ³ , 1 h
FORMALDEHYDE	LC 50 Rat: 203 mg/m ³ , 2 h

Acute Dermal Toxicity

METHYL ETHYL KETONE	LD 50 Rabbit: 5 g/kg
PHENOL	LD 50 Rabbit: 850 mg/kg LD 50 Rabbit: 850 mg/kg LD 50 Rat: 669 mg/kg
ORTHO CRESOL	LD 50 Rabbit: 890 mg/kg
FORMALDEHYDE	LD 50 Rabbit: 288 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Acute and Prolonged Toxicity to Fish

No data

Acute Toxicity to Aquatic Invertebrates

No data

Environmental Fate and Pathways

No data

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Destroy by liquid incineration in accordance with applicable regulations. For assistance with your waste management needs - including disposal, recycling and waste

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stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

IMDG:
UN1133, ADHESIVES 3, II
IATA_P:
UN1133, Adhesives 3, II
IATA_C:
UN1133, Adhesives 3, II
CFR_ROAD:
UN1133, Adhesives 3, II
CFR_RAIL:
UN1133, Adhesives 3, II
CFR_INWTR:
UN1133, Adhesives 3, II
IMDG_INWTR:
UN1133, ADHESIVES 3, II
IMDG_ROAD:
UN1133, ADHESIVES 3, II
IMDG_RAIL:
UN1133, ADHESIVES 3, II

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

FORMALDEHYDE

Additional Regulations

US. Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

SARA Hazard Classification Fire Hazard
 Acute Health Hazard
 Chronic Health Hazard

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SARA 313 Component(s)

PHENOL	108-95-2	1.088%
FORMALDEHYDE	50-00-0	0.1346%

OSHA Hazards

Flammable Liquid
Highly toxic by inhalation
Toxic by ingestion
Toxic by skin absorption
Corrosive to skin
Corrosive to eyes
Carcinogen

	Health	Flammability	Reactivity	Other
HMIS	1	3	0	
NFPA	1	3	0	

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-

MATERIAL SAFETY DATA SHEET

Z4000
06 00

=====
Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	HMIS CODES
Z4000	Health 2*
	Flammability 0
	Reactivity 0

PRODUCT NAME
ACCOLADE* Premium Acrylic Latex Interior Velvet Wall & Trim Enamel,
SUPER ONE-COAT* White

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
PRATT & LAMBERT PAINTS	(216) 566-2917
101 Prospect Avenue N.W.	
Cleveland, OH 44115	

DATE OF PREPARATION	INFORMATION TELEPHONE NO.
09-JUN-03	(216) 566-2902

=====
Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
3	107-21-1	Ethylene Glycol		
		ACGIH TLV	50 ppm CEILING	0.12 mm
		OSHA PEL	50 ppm CEILING	
0.1	14464-46-1	Cristobalite		
		ACGIH TLV	0.05 mg/m3 as Resp. Dust	
		OSHA PEL	0.05 mg/m3 as Resp. Dust	
17	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

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Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

=====
Section 4 -- FIRST AID MEASURES
=====

If INHALED: If affected, remove from exposure. Restore breathing.
Keep warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes.
Get medical attention.

If SWALLOWED: Do not induce vomiting.
Get medical attention immediately.

=====
Section 5 -- FIRE FIGHTING MEASURES
=====

FLASH POINT LEL UEL
Not Applicable N.A. N.A.

FLAMMABILITY CLASSIFICATION
Not Applicable

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

=====
Section 6 -- ACCIDENTAL RELEASE MEASURES
=====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

=====
Section 7 -- HANDLING AND STORAGE
=====

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

=====
 Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION
 =====

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

 =====
 Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES
 =====

PRODUCT WEIGHT	10.94 lb/gal	1311 g/l
SPECIFIC GRAVITY	1.32	
BOILING POINT	212 - 477 F	100 - 247 C
MELTING POINT	Not Available	
VOLATILE VOLUME	60 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	9.0	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)		
1.14 lb/gal	136 g/l	Less Water and Federally Exempt Solvents
0.52 lb/gal	62 g/l	Emitted VOC

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 Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable
 CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

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 Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Ethylene Glycol is considered an animal teratogen. It has been shown to cause birth defects in rats and mice at high doses when given in drinking water or by gavage. There is no evidence to indicate it causes birth defects in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
107-21-1	Ethylene Glycol	LC50	RAT	4HR	Not Available
		LD50	RAT		4700 mg/kg
14464-46-1	Cristobalite	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

 =====
 Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

 =====
 Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

=====
Section 14 -- TRANSPORT INFORMATION

No data available.

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Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
107-21-1	Ethylene Glycol	3	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

=====
Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



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MATERIAL SAFETY DATA SHEET

Issue Date: 11-01-2012

SECTION I - PRODUCT IDENTIFICATION

Product Name: Precious Metals

Product Nos: 45500, 45501-45550

Product Class: Water Based Coating

HMIS Rating: Health = 1 Fire = 0 Reactivity = 0

Product Sizes: 1.75 Fl.oz.

Transportation: DOT Class 55

SECTION II - HAZARDOUS INGREDIENTS

Chemical Names	CAS#	Ingredient Percent
Water	7732-18-5	20-60 by weight
Glycol Ether	111-76-2	1-5 by weight
Glycol Ether	34590-94-8	1-5 by weight
Propylene Glycol	57-55-6	1-5 by weight
Preservative	56709-13-8	1-5 by weight
Oil-based Defoamer	64742-65-0	1-5 by weight
Silicone Defoamer	9038-95-3	1-5 by weight
{2-}Amino-2-methyl-1-propanol	124-68-5	1-5 by weight
Rheology Additive-Dispalon AQ-600	See MSDS attached	1-5 by weight
Styrene Acrylic Polymer-Raycryl-191	See MSDS attached	1-25 by weight
Silicone Surfactant-BYK-346	See MSDS attached	1-5 by weight
Surfactant	9016-45-9	1-5 by weight
Mica Powders	12001-26-2	1-15 by weight
Titanium Dioxide	13463-67-7	1-5 by weight
Inorganic Pigments	Mixtures(listed below)	1-5 by weight
Red Iron Oxide	1309-37-1	0-5%
Yellow Iron Oxide	1309-33-7	0-5%
Carbon Black dispersion	1333-86-4	0-5%
		Total: 100%

SECTION III - PHYSICAL & CHEMICAL DATA

Boiling Point: N/A

Melting Point: N/A

Vapor Pressure: N/A

Specific Vapor Density (Air=1): N/A

Specific Gravity: N/A

Solubility in Water: N/A

Reactivity in Water: Non-reactive

Appearance: Colored liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Auto ignition Temperature: N/A

Explosion Limits in Air: Not explosive

Extinguishing Media: No special media required

Fire Fighting Procedures: No special fire fighting procedures required

Unusual Fire and Explosion hazards: Not combustible

SECTION V - PHYSICAL HAZARDS/REACTIVITY

Hazardous Polymerization Products: None
Incompatibility (Materials to Avoid): None

Stability: Conditions to avoid: None
Hazardous Decomposition Products: None

SECTION VI - FIRE AND EXPLOSION HAZARD

Permissible Exposure Level: See Section II for component PEL/TLV
Primary routes of entry: Inhalation, ingestion, eye, skin
Effects and symptoms of acute exposure: None expected
Effects and symptoms of chronic exposure: None expected
Carcinogen Listing: NTP: No IARC: No OSHA: No
Medical Conditions Usually Aggravated by Overexposure to this Product: None
First Aid Measures: None required. No acute health effects expected.

SECTION VII - SPILL OR LEAK PROCEDURES

Precautions to be Taken During Storage and Handling: No special precautions required.
Steps to be Taken in Case a Material is Spilled: No special spill procedures required
Waste Disposal Methods: Dispose in accordance with federal, state, and local regulations

SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES

Respiratory Protection and Special Ventilation Requirements: None required
Other Protective Equipment: None required
Work/Hygiene Practices: None required

Prop 65 Ingredients: Formaldehyde, Base Acrylic Emulsion Blend (mixture), Water (7732-18-5). Pennsylvania Right-to-Know (Non-Haz @ >3%): Water (7732-18-5). Ingredients Known to State of California to cause cancer &/or developmental toxicity &/or reproductive toxicity: Formaldehyde (50-00-0). HMS Ratings: Health: 1, Flammability: 0, Reactivity: 0, Personal Protection: X. **WARNING:** This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

This information sheet is for the consumer use of this product only.

Material Safety Data Sheet

MANUFACTURER:
GPM
201 Jandus Road
Cary, IL 60013

EMERGENCY TELEPHONE NUMBER:
(866)257-3981
DATE: July 09, 2013

TECHNICAL INFORMATION:
(847)639-5383
SUPERCEDES: September 19, 2011

HMIS:
H *[2]
F [4]
R [0]

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT CODE: PDS-91, 92
PRODUCT NAME: Premium Decor Metallic Spray Enamel
PRODUCT CLASS: Aerosol Paint

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	WT. %	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE mmHg@20°C
			TLV	PEL	
Acetone	67-64-1	18-21	750 ppm	1000 ppm	186.0
Hydrocarbon Propellant	Mixture	30-33	1000 ppm	1000 ppm	80 p.s.i.
(S) Toluene	108-88-3	30-35	20 ppm	100 ppm	22.0
(S) Xylene	1330-20-7	2-4	100ppm	100 ppm	14.0
(S) Ethyl Benzene	100-41-4	.3-.8	100ppm	100 ppm	12.0
(S) Copper	7440-50-8	4-6	1 mg/m ³	1 mg/m ³	NA

(S) - This ingredient is subject to the reporting requirements of Section 313 SARA Title III.

NA - Not applicable. NE - Not established.

SECTION 3 - PHYSICAL DATA

VAPOR DENSITY: HEAVIER LIGHTER THAN AIR
EVAPORATION RATE: FASTER SLOWER THAN ETHER
APPEARANCE/ODOR: Colored liquid/solvent
VOLATILE ORGANIC COMPOUND(VOC) MAXIMUM: Metallic 80% MIR: 1.90
BOILING RANGE: <0°F
92-97% VOLATILE VOLUME
DENSITY: 6.3-6.9Wt(lbs)/Gal

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA Class IA FLASH POINT: <-138°F LEL: 2.0
DOT ORM-D

EXTINGUISHING MEDIA:

FOAM ALCOHOL FOAM CO₂ DRY CHEMICAL WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode when exposed to extreme heat. Isolate from heat, sparks and open flame. Vapors may accumulate and travel to ignition sources distant from handling site.

SPECIAL FIRE FIGHTING PROCEDURES: Use a self-contained breathing apparatus with full face mask in a positive pressure demand mode. Treat as a volatile liquid fire. Water spray may be ineffective. If water spray is used, fog nozzles are preferable. Water may be used to cool sealed containers to prevent pressure build-up and possible explosion or auto-ignition when exposed to the heat of a fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and unidentified organic compounds.

SECTION 5 - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INHALATION: Exposure to vapors, mists or sanding dusts may cause moderate irritation to the lungs, nose, and throat. May also cause dizziness, nausea or fatigue.

SKIN CONTACT: Exposure may cause mild irritation. Prolonged exposure may cause drying and cracking.

EYE CONTACT: Causes irritation, including redness, stinging and watering.

INGESTION: Moderately toxic in large amounts. Could cause drowsiness, nausea or headache. (See additional information in Section 9)

CARCINOGENICITY: This product contains ethyl benzene(See Section 2). Ethyl benzene has been classified by IARC (but not by NTP or OSHA) as possible carcinogen for humans (2B) based on laboratory animal studies.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting skin, eye and respiratory disorders may be aggravated by exposure to this product.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Use artificial respiration if necessary. Seek medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse.

EYE CONTACT: Immediately flush eyes with large amounts of water. If symptoms persist, seek medical attention.

INGESTION: Give 1 or 2 glasses of water to dilute. Do not induce vomiting. Get medical attention immediately.

SECTION 6 - REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY (Materials to avoid): Avoid contact with strong oxidizing agents.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Contain spill, absorb liquid with clay, sand or floor absorbent. Prevent run-off to sewers, streams or other bodies of water.

WASTE DISPOSAL METHOD: Observe all federal, state and local regulations regarding proper disposal.

SECTION 8 - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA jointly approved air purifying respirator if TLV limits are exceeded. Approved mechanical filter to remove solid airborne particles of overspray during application.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV.

PROTECTIVE CLOTHING: Wear safety glasses with side shields to prevent eye contact. Contact lenses should not be worn. Use solvent resistant gloves to avoid prolonged contact.

OTHER PROTECTIVE EQUIPMENT: Eyewash fountains and safety showers in the event of an accident.

HYGIENIC PRACTICES: Wash hands thoroughly after use, and before eating, drinking or smoking.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Handle as an extremely flammable material. Keep liquid and vapor away from heat, sparks, and open flame. Close container after each use. Store in a cool dry area. Do not expose container to temperatures above 120°F.

OTHER PRECAUTIONS: CAUTION: Keep out of reach of children. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

The information contained in this MSDS is based on information and data provided by the supplier of the raw material used in the manufacture of this product. Although GPM believes such information and data to be reliable, GPM makes no warranty, expressed or implied, regarding the accuracy and completeness of such information and data.

MATERIAL SAFETY DATA SHEET

RUBBER CEMENT

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME..... Professional Art Distribution, Inc.
dba PRO ART
PO Box 1417
Beaverton, OR 97075

EMERGENCY PHONE NUMBER... Domestic Infotrac 1-800-535-5053
International Infotrac 352-323-3500

RESELLER'S NAME..... n/a

EFFECTIVE DATE..... 11/96

REVISED DATE..... 1/99

PRODUCT IDENTIFIER..... AR1

TRADE NAME..... RUBBER CEMENT

CHEMICAL FAMILY..... Polymer Solution

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	PERCENT	TLV (Units)	CAS NUMBER
Heptane	84%	400 ppm	142-82-5
Ethyl Alcohol	3%	1000 ppm	64-17-5

SPECIAL...

SECTION III - PHYSICAL DATA

BOILING POINT..... 200°F

FREEZING POINT..... not established

VOLATILITY/VOL(%)..... 89%

MELTING POINT..... not established

VAPOUR PRESSURE..... 76 mm HG at 20°C

VAPOUR DENSITY (air=1)... 3.5

SOLUBILITY IN H2O..... nil

ODOUR AND APPEARANCE.... Light yellow liquid with solvent odor.

SPECIFIC GRAVITY..... 0.78

EVAPORATION RATE..... 5.6

pH..... n/a

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION..... 25°F tag closed cup

LOWER EXPLOSION LIMIT(% BY VOL)..... 1.2

UPPER EXPLOSION LIMIT(% BY VOL)..... 7.5

MATERIAL SAFETY DATA SHEET

RUBBER CEMENT

EXPLOSION DATA..... Vapors are heavier than air and may travel along the ground. This could cause ignition by pilot light, sparks, heaters, smoking, electric motor, static discharge or other ignition sources. Never weld or cut empty drums.

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SECTION V - HEALTH HAZARD DATA

=====

ROUTES OF ENTRY

SKIN CONTACT	SKIN ABSORPTION	EYE	INHALATION	INGESTION
yes	yes	yes	yes	yes

ACUTE AND CHRONIC OVER

EXPOSURE EFFECTS..... Anemia, liver abnormalities, kidney damage, lung damage.

CARCINOGENICITY,

REPRODUCTIVE EFFECTS.... none known

SYMPTOMS..... Eye contact will cause tearing and blurred vision. Skin contact may cause dried skin and irritation. Inhalation can cause headache, nausea, vomiting, narcosis. Ingestion can cause nausea.

SENSITIZATION TO MATERIAL not determined

SPECIFIC FIRST AID

PROCEDURES..... EYES - Flush with water for 15 minutes. Seek medical attention.
SKIN - Wash thoroughly with soap and water. If irritation persists, seek medical attention.
INHALATION - Remove to fresh air. If breathing is difficult, seek medical attention
INGESTION - If conscious, DO NOT induce vomiting. Seek medical attention.

=====

SECTION VI - REACTIVITY DATA

=====

CHEMICAL STABILITY..... stable

CONDITIONS OF REACTIVITY. Open flames and excessive heat.

INCOMPATIBLE MATERIALS... Strong oxidizing agents.

HAZARDOUS DECOMPOSITION

PRODUCTS..... Carbon monoxide, carbon dioxide, hydrocarbons and other acrid products of combustion.

HAZARDOUS POLYMERIZATION. will not occur

POLYMERIZATION AVOID..... n/a

=====

SECTION VII - SPILL OR LEAK PROCEDURE

=====

LEAK AND SPILL PROCEDURES Extinguish all sources of ignition. Collect on safety absorbents and dispose of properly.

MATERIAL SAFETY DATA SHEET

RUBBER CEMENT

SECTION VIII - SPECIAL PROTECTION

=====

RESPIRATORY PROTECTION... Cartridge type chemical filter mask is required if TLV limits are exceeded.

VENTILATION..... Good general recommended.

PROTECTIVE GLOVES..... Chemically resistant such as neoprene rubber.

EYE PROTECTION..... OSHA approved full face mask.

OTHER PROTECTIVE EQUIPMENT..... n/a

HANDLING PROCEDURES AND EQUIPMENT..... Treat as a flammable liquid. Store as prescribed Class I/Group D Flammable Liquids. Keep away from sources of heat such as direct sun, boilers, etc. Avoid sparks and open flames.

=====

SECTION IX - SPECIAL PRECAUTIONS

=====

HAZARD CLASS..... 3 (Flammable Liquid)	2	HMIS HEALTH
DOT SHIPPING NAME... ADHESIVES	3	HMIS FLAMMABILITY
UN NUMBER..... 1133	0	HMIS REACTIVITY
NA #..... n/a	C	HMIS PERSONAL PROTECTION

=====

OTHER..... The above hazardous classification is for international shipping and domestic shipping for container sizes of one gallon or more. Domestic shipments for container sizes under one gallon have a shipping classification of ORM-D, Consumer Commodity.

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.



PO Box 14 • Somerset, MA 02726
orders 1-800-2-BUY-DYE
technical support 508-676-3838
fax 508-676-3980
e-mail • promail@prochemical.com
www.prochemical.com

Material Safety Data Sheet Turquoise MX 410

Emergency Telephone Numbers:
800-255-3924 Chemtel. (United States)
+ 1 01 813-248-0585 (Outside the United States)

Issue Date:5/10/13

1. Product Identification

Product Name: Turquoise MX 410
Chemical Family: Phthalocyanine
T.S.C.A. Status: Compliance

2. Hazardous Ingredients

Hazardous Components: Copper CAS# 7440-50-8 1.52 %
Copper Compound 38.0%

Current TI V's: None Known

3. Hazards Identification

Primary Route of Exposure

Inhalation: No Skin Absorption: No Ingestion: No
Skin Contact: Yes Eye Contact: Yes

Carcinogen Status

IARC: No NTP: No OSHA: No ACGIH: No

Chronic Effects of Overexposure

None Known

Signs and Symptoms of Overexposure

May Be Irritating to the Eyes, Skin, or Respiratory Tract.

Medical Conditions Aggravated

Persons with Any Pre-existing Skin, Eye or Respiratory Condition May Be More Susceptible to the Effects of this Product.

4. Emergency and First Aid Procedures

General Information: Immediately Remove All Contaminated Clothing

Eye Contact: Wash Immediately with Large Amounts of Water for 15 Minutes, Lifting the Upper and Lower Lids until No Evidence of Product Remain. Get Medical Attention Immediately. Do Not Wear Contact Lenses While Handling.

Skin Contact: Remove All Contaminated Clothing Immediately. Wash Immediately with Soap and Plenty of Water. If a Temporary Skin Reaction Occurs, it Should Be Treated as Allergic Contact Dermatitis. Launder Contaminated Clothing Before Reuse.

Ingestion: Dilute with Water. Get Medical Attention. Never Give Fluids or Induce Vomiting If Patient Is Unconscious or Has Convulsions.

Inhalation: If Inhaled, Remove to Fresh Air. If Not Breathing, Give Artificial Respiration, Preferably Mouth to Mouth. If breathing Is Difficult, Give Oxygen. Call a Physician.

5. Fire and Explosion Data

Flash Point: Not Applicable

Extinguishing Media: CO2 Dry Chemical Foam Water Fog

Special Fire Fighting Procedures/unusual Fire or Explosion Hazards:

Firefighters Should Be Equipped with Protective Clothing & Self-contained Breathing Apparatus to Protect Against Potentially Toxic & Irritating Fumes. In Case of Fire or Explosion, Keep Unnecessary People Away. Isolate Hazard Area & Any Entry. Stay Upwind, out of Low Areas, and Ventilate Closed Spaces Before Entering.

Additional Information: Avoid Dusting Conditions. May Form Explosive Dust Mixtures with Air.

6. Spill or Leak Procedures

In Case Material Is Released/spilled:

Avoid Formation and Deposition of Dust. Do Not Empty into Drains or Waters. Do Not Touch or Walk Through the Spilled Material: Stop Leak If You Can Do it Without Risk. Take up with Sand or Other Non-combustible Absorbent Material or Suitable Vacuum and Place into Labeled Sealable Containers. For Further Disposal Measures See Section 13.

7. Special Precautions and Storage Data

Safe Handling: in Accord with Good Industrial Practice. Handle with Care and Avoid Personal Contact.

8. Employee Protection Recommendations

General Protective Measures:

Do Not Breathe Dust. Avoid Contact with Eyes and Skin. Immediately Remove All Contaminated Clothing.

Eye Protection: Employees Should Wear Protective Eye-goggles with Side Protection Shield.

Skin Protection: Employees Should Avoid Skin Contact by Wearing Protective Clothing. Long Sleeve Shirts, Pants, Gloves e.g. of PVC or Nitrile Rubber, and Boots Are Recommended. Additional Protections Such as Impervious Suits Are Recommended When the Potential for Dermal Contact Is Significant. Employees Should Wash Their Hands and Face Before Eating and Drinking and Shower Thoroughly Before Leaving Work. Keep Away from Food and Drink Stuff.

Respiratory Protection: Inhalation of Dust and Aerosols must Be Absolutely Prevented by the Use Of a NIOSH Approved Dust Respirator.

Ventilation: Use Local Ventilation.

Other: Wear Overalls, Apron or Other Protective Clothing.

9. Physical Data

Appearance:	Powder
Color:	Dark Blue
Odor:	None
Solubility in Water:	120 G/l at 20 deg C
Ignition Temp:	N.A.
Bulk Density:	N.A.
pH:	7.0 109/l at 20 deg C
% Volatile:	0.02

10. Reactivity Data

Thermal Decomposition: No Thermal Decomposition When Stored and Handled Correctly.

Hazardous Reactions: in the Case of Dusty Organic Products the Possibility of a Dust Explosion Should Always Be Considered.

11. Toxicological Data

Animal Toxicity Oral - Ld50 (Ingestion):	> 5000 mg/kg (Rat)
Fish, LC50:	> 100 mg/l 96hr(oncorhynchus mykiss)
Eye Effects:	Non-irritant (Rabbit Eye)
Skin Effects:	Non-irritant (Rabbit)
Sensitization:	May Cause Sensitization by Inhalation And Skin Contact.

12. Ecological Data

Biodegradability:	< 20%
Bacteria Toxicity IC50:	> 10 mg/l (Activated Sludge)
COD	1,100 mg/l
AOX:	ND

13. Disposal Considerations

Product: If Utilization Or Recycling of the Product Is Not Possible, it Should Be Disposed of in Accordance With Existing Federal, State and Local Environmental Regulations, e.g. by Incineration in a Suitable Plant. Uncleaned Packaging: Soiled, Empty Containers Are to Be Treated in the Same Way as the Contents.

14. Shipping Data

Proper Shipping Name: Non-hazardous Ink Material
D.O.T. Hazard Classification: Not Regulated
Frt. Class Package: 55
IATA(C.P.): Non-regulated
IMDG: Non-regulated

15. Regulatory Data

US Regulations:

TSCA: the Components of this Product Are Listed on the TSCA Inventory

Sara 313: this Product Is Subject to Sara Title III Section 313 Reporting Requirements under 40 CFR 372.

Copper Compounds 38 % , Copper 1.52 %

Sara 312:	Immediate (Acute) Health Hazard	No
	Delayed (Chronic) Health Hazard	No
	Fire Hazard	No
	Sudden Release of Pressure	No
	Reactivity	No

Other Regulations: Label in Accordance with the EEC Directives:

Hazard Symbols: Xn Harmful

Contains: Reactive Dyestuff

R 42/43: May Cause Sensitization by Inhalation and Skin Contact.

S22: Do Not Breathe Dust.

S24: Avoid Contact with Skin.

S37: Wear Suitable Gloves.

This Product Is Not Subject to the German Ordinance That Bans Certain Azo Dyes or the 19th Amendment of the Council Directive 76/769/EEC.

California Proposition 65: this Product Contains Components Currently on the California List of Known Carcinogens and Reproductive Toxins

Formaldehyde (50-00-0) 180 ppm

16. Other Information

The manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in its directions for use, subject to the inherent risks referred to in the material safety data sheet for this product. The manufacturer makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. In no case shall the manufacturer be liable for consequential, special, or indirect damages resulting from the use or handling of this product.

MSDS Created: March 9, 2010

MSDS Revised: October 8, 2012



Date: 29 April 2013
Supercedes: 4 May 2010

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: **PURELL® INSTANT HAND SANITIZER**

Company Name & Address: GOJO Industries, Inc.
One GOJO Plaza, Suite 500
Akron, OH 44311

Emergency Phone: **1-800-424-9300 CHEMTREC**

Non-Emergency Phone: (330) 255-6000

MSDS Request Phone: (330) 255-6000 x8804

2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	62
Isopropanol	67-63-0	400 ppm	200 ppm	<5

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Ethyl Alcohol	64-17-5	MA 1; NJ 1S; PA 1; CN 2
Isopropanol	67-63-0	MA 1; NJ 1S; PA; CN 1

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

Potential Health Effects:

HMIS: Health 2 Flammability 3 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.

Skin Contact: No irritation or reaction expected.

Inhalation: Not applicable.

Ingestion: May cause upset stomach, nausea (Abnormal entry route).

Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

5. FIRE FIGHTING MEASURES:

NFPA: Health 2 Fire 3 Reactivity 0
Flashpoint °F/°C (PMCC method): 77°F/25°C
Unusual Fire and Explosion Hazards: Product is flammable due to alcohol content.
Special Fire Fighting Procedures: None known.
Extinguishing Media: Water Fog Alcohol Foam CO₂ Dry Chemical Other

6. ACCIDENTAL RELEASE MEASURES:

Avoid contact with ignition sources since product is flammable. Absorb onto inert material and dispose in appropriate manner. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

7. HANDLING AND STORAGE:

Keep away from fire or flame. Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection: None required under normal conditions.
Skin Protection: None required under normal conditions.
Respiratory Protection: None required under normal conditions.
Ventilation: None required under normal conditions.
Protective Equipment or Clothing: None required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance and Odor Clear liquid, citrus fragrance
pH (undiluted): 6.0 – 9.2
VOC, %: 65

10. STABILITY AND REACTIVITY:

Stable/Non reactive product. Avoid ignition sources.

11. TOXICOLOGICAL INFORMATION:

No acute or chronic toxic effects expected when used according to directions.

12. ECOLOGICAL CONSIDERATIONS:

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

13. DISPOSAL CONSIDERATIONS:

Characteristic hazardous waste-flammable liquid. Dispose according to local, state and Federal regulations.

14. TRANSPORT INFORMATION:

Hazardous by transport regulations. When transported by ground modes in the U.S., this product typically is typically shipped as Consumer Commodity ORM-D. When transported by water, this product is typically shipped as a UN1170 in Limited Quantities. Refer to all current transport regulations for exact requirements.

15. REGULATORY AND OTHER INFORMATION:

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(vi).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

Material Safety Data Sheet

Quick Grip Adhesive

Preparation Date: February 25, 2004

KCPA
costumeshop
5.20.2010

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Quick Grip Adhesive

General Use: Adhesive

Manufacturer: Beacon Adhesives Company., Inc. 125 South MacQuesten Parkway Mount Vernon, NY 10550

Phone: (914-699-3400) Fax: (914-699-2783) Hours 9 of 5 Operation

Chemtrec Emergency Phone (800) 424-9300

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	%Wt.
Acetone	67-64-1	>25
Hexane	110-54-3	>25

Section 3 - Hazards Identification

Emergency Overview

HMIS

H 2
F 3
R 0

Potential Health Effects

Primary Entry Routes: Nose, skin, mouth

Target Organs: Kidney, heart, and central nervous system.

Acute Effects

Inhalation: May cause irritation, lung inflammation and/or other lung injury.

Eye: May cause irritation, redness, swelling and/or stinging.

Skin: May cause irritation. Prolonged exposure may cause dry, cracked skin and/or skin burns.

Ingestion: May cause irritation, nausea, vomiting and/or diarrhea.

Carcinogenicity: IARC, NTP, and OSHA do not list Quick-Grip as a carcinogen.

Medical Conditions Aggravated by Long -Term Exposure: Pre-existing disorders of the central nervous system, auditory system, kidney, respiratory tract, lung, and heart.

Chronic Effects: May cause stomach upset, kidney damage, CNS depression, cardiac arrhythmia and/or death..

Section 4 - First Aid Measures

Inhalation: Remove to fresh air. Get medical attention if irritation persists.

Eye Contact: Flush eyes with large amounts of water for 15 minutes or until irritation subsides. Get Medical attention.

Skin Contact: Flush exposed areas thoroughly with soap and water until all chemicals are removed. Remove contaminated clothing and launder before reuse. If irritation persists, get medical attention

Ingestion: If individual is conscious, give milk or water to dilute stomach contents. DO NOT INDUCE VOMITING. This may lead to lung injury. DO NOT attempt to give anything by mouth to a drowsy or unconscious person. Keep warm and quiet. Get prompt medical attention.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flash Point: -23 °

Flash Point Method: TCC

LEL: N/D

UEL: N/D

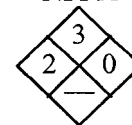
Extinguishing Media: Foam, CO or dry chemical.

Unusual Fire or Explosion Hazards: Vapors may travel to other areas. Empty containers still contain vapors. Do not weld on or near.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

NFPA



Section 6 - Accidental Release Measures

Spill /Leak Procedures:

Small Spills: Eliminate all sources of ignition. Absorb with sand or absorbent material.

Large Spills

Quick Grip MSDS

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Wear appropriate protective equipment when handling material.

Storage Requirements: Store at room temperature away from heat, sparks, open flames etc. Empty containers retain vapors. Quick-Grip has a shelf life of one year.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Heavy Liquid

Vapor Pressure: 152 mm Hg at 68 °F

Vapor Density (Air=1): 3.5

Boiling Point: >105°F (41°C)

Freezing/Melting Point: N/D

Section 10 - Stability and Reactivity

Stability: Quick-Grip is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong oxidizing agents.

Conditions to Avoid: Heat, open flame, and other sources of ignition.

Hazardous Decomposition Products: Thermal oxidative decomposition of Quick-Grip can produce oxides of carbon and various hydrocarbons.

Section 11- Toxicological Information

Toxicity Data: No Data

Section 12 - Ecological Information

Ecotoxicity: No data

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):