MATERIAL SAFETY DATA SHEET

Rust Preventive Paint
Part No. 1
Revision 3 ❖ September 30, 2011

CONFORMS TO THE GLOBALLY HARMONIZED SYSTEM (GHS), ANSI Z400.1-2004, EU DIRECTIVE 91/155/EEC & 99/45/EC, OSHA 29 CFR 1910.1200, NOHSC:2011(2003), AND CANADIAN CPR

Section 1 ● PRODUCT AND COMPANY IDENTIFICATION ● Section 1

Product Numbers	*1*
Product Name	*POR-15 Rust Preventive Paint*
Synonyms	*None*
Products Uses	*Paint*
Revision Number	*3*
Revision Date	*September 30, 2011*
Print Date	*September 30, 2011*

24 hr Emergency Phone Number

800-424-9300
(Chemtrec)

MANUFACTURER INFORMATION		DISTRIBUTOR INFORMATION
Company Name	*POR-15, Inc.*	Company Name
Address	*PO Box 1235*	Address
	Morristown NJ 07962	
Phone Number	*973-887-1999*	Phone Number
Fax Number	*973-887-8007*	Fax Number

Section 2 ● HAZARDS IDENTIFICATION ● Section 2

EMERGENCY OVERVIEW

CAUTION! CONTENTS **COMBUSTIBLE**. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. SKIN AND RESPIRATORY SENSITIZER. SKIN AND RESPIRATORY IRRITANT. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

OSHA Classification	*This product is a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.*
European Classification	*Carc. Cat. 3* *Xn, Xi* *R 15-20-36/37/38-40-42/43-48/20-65* *S 1/2-7/8-23-24-43-45-53-62*
WHMIS Classification	*B3, D1A, D2A, D2B*

HEALTH HAZARDS				PHYSICAL HAZARDS					
Irritant	✓	Sensitizer	✓	Combustible	✓	Explosive		Pyrophoric	
Toxic		Highly Toxic	✓	Flammable		Oxidizer		Water Reactive	
Corrosive		Carcinogenic	☼	Compressed Gas		Organic Peroxide		Unstable	

☼ *See Section 11*

LABELING REQUIREMENTS			
CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS
	CAUTION CONTENTS COMBUSTIBLE		

POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact	*Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Prolonged vapor contact may cause conjunctivitis.*
Skin Contact	*Causes irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reaction. Cured material is difficult to remove. Contact with isocyanates can cause discoloration (staining) and hardening of the skin after repeated exposures.*
Ingestion	*May cause irritation. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.*
Inhalation	*Diisocyanate vapors or mist can irritate the mucous membranes in the respiratory tract causing running nose, sort throat, coughing, chest discomfort, shortness of breath and reduced lung function. Persons with a preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV/PEL may lead to bronchitis, bronchial spasm and pulmonary edema. Chemical or hypersensitivity pneumonitis, with flu-like symptoms, has also been reported. These symptoms can be delayed up to several hours after exposure.*
Effects of Chronic Exposure	*Prolonged skin contact can cause in some cases sensitization. Animal tests and other research indicate skin contact with isocyanates can play a roll in causing isocyanate sensitization and respiratory reaction. As a result of repeated overexposure, or a single large exposure, some individuals may develop sensitization to diisocyanates (asthma or asthma-like symptoms) that may cause them to react to a later exposure at levels well below the TLV/PEL. These symptoms could include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, and could be immediate or delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. This increased sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Chronic overexposure to diisocyanates has also been reported to cause lung damage, including fibrosis and a decrease in lung function.*
Medical Conditions Aggravated	*Asthma, respiratory disorders, skin allergies, eczema*
Target Organs	*Eyes, Skin, Respiratory System, Central Nervous System*
Routes of Exposure	*Skin contact, eye contact, inhalation*
Potential Environmental Effects	*See Section 12 for environmental effects*

Section 3 ● COMPOSITION / INFORMATION ON INGREDIENTS ● Section 3

ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	% WT BLACK	SEMI	CLEAR	SILVER	GRAY
1	*Oxirane, methyl-, polymer with .alpha.-hydro-.omega-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 1,1'-methylenebis[isocyanatobenzene]*	*Trade Secret POR.01109301*	*Trade Secret*	*Xn, Xi; 20-36/37/38-40-42/43-48/20*	*30 - 60*	*—*	*30 - 60*	*—*	*30 - 60*
2	*Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol*	*Trade Secret POR.01109302*	*Trade Secret*	*Xn, Xi; 20-36/37/38-40-42/43-48/20*	*—*	*30 - 60*	*—*	*30 - 60*	*—*
3	*Aromatic Naphtha*	*064742-95-6*	*265-199-0*	*45-65*	*10 - 30*	*10 - 30*	*15 - 40*	*15 - 40*	*15 - 40*
4	*Propanol, [(1-methyl-1, 2-ethanediyl)bis(oxy)] bis-, polymer with 1-isocyanato-2-[(4-isocyanatophenyl) methyl]benzene and 1,1'-methylenebis[4-isocyanatobenzene]*	*Trade Secret POR.01109303*	*Trade Secret*	*—*	*10 - 30*	*10 - 30*	*10 - 30*	*10 - 30*	*10 - 30*
5	*Aliphatic Naphtha*	*064742-88-7*	*265-191-7*	*65*	*10 - 30*	*10 - 30*	*—*	*—*	*—*
6	*Methylene Bisphenyl Isocyanate (MDI)*	*000101-68-8*	*202-966-0*	*Xn, Xi; 20-36/37/38-40-42/43-48/20*	*7 - 13*	*7 - 13*	*7 - 13*	*7 - 13*	*7 - 13*
7	*Aluminum*	*007429-90-5*	*231-072-3*	*F; 10-15*	*—*	*—*	*—*	*3 - 7*	*—*
8	*Carbon Black*	*001333-86-4*	*215-609-9*	*—*	*3 - 7*	*3 - 7*	*—*	*—*	*0.1 - 1*
9	*Methylene Diphenyl Diisocyanate (Crude MDI)*	*026447-40-5*	*247-714-0*	*Xn, Xi; 20-36/37/38-40-42/43-48/20*	*1 - 5*	*3 - 7*	*1 - 5*	*3 - 7*	*1 - 5*
10	*Titanium Dioxide*	*013463-67-7*	*236-675-5*	*—*	*—*	*—*	*—*	*—*	*1 - 5*
11	*Polymeric Diphenlmethane Polyisocyanate*	*009016-87-9*	*—*	*—*	*1 - 5*	*—*	*1 - 5*	*—*	*1 - 5*
12	*Hydrotreated Heavy Petroleum Naphtha*	*064742-48-9*	*265-149-8*	*Xn; 65*	*—*	*—*	*—*	*1 - 5*	*—*

Risk Phrases	*See Section 15 for risk phrase text*
LD50 and LC50 Information	*See Section 11 for toxicological information*
Occupational Exposure Limits	*See Section 8 for OELs*

Section 4 ● FIRST AID MEASURES ● Section 4

Ingestion	*DO NOT INDUCE VOMITING! Wash mouth out with water. Do not give anything by mouth to an unconscious individual. Consult a physician.*
Skin Contact	*Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.*
Eye Contact	*Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.*
Inhalation	*Immediately move to an area free from exposure with fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.*
Notes to Physician	*Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparations as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: This product is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treat symptomatically. An individual having a dermal or pulmonary sensitization reaction to this product should be removed from further exposure to any diisocyanate.*
Antidotes	*No specific antidote.*

Section 5 ● FIRE FIGHTING MEASURES ● Section 5

Flash Point	*> 106 °F (41.1 °C)*
Autoignition Temperature	*444 °F (229.0 °C)*
Explosive Limits	*0.60% to 6.50%*
Conditions of Flammability	*Heat, sparks, flame, red hot metal*
Extinguishing Media	*CO2, dry chemical, or universal aqueous film forming foam*
Unsuitable Extinguishing Media	*Water jet or water-based fire extinguishers*
Hazardous Combustion Products	*Nitrogen oxides, hydrogen cyanide, oxides of carbon (CO, CO2), smoke, and vapors*
Sensitivity to Mechanical Impact	*Probably not sensitive as material is stable.*
Sensitivity to Static Discharge	*Vapor within the flammable limits may be ignited by a static discharge of sufficient energy.*
Special Equipment and Precautions	*Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed pressure. Firemen should wear self-contained breathing apparatus.*
Special Explosion Hazards	*COMBUSTIBLE LIQUID. Vapors can form an explosive mixture with air and can travel to a source of ignition (spark or flame) and flash back.*
Autoreactivity / Oxidizing Properties	*Not available*

Section 6 ● ACCIDENTAL RELEASE MEASURES ● Section 6

Personal Precautions	*Use personal protection recommended in Section 8. Isolate hazard area and deny entry to unnecessary and unprotected personnel.*
Environmental Precautions	*Keep out of drains, sewers, ditches, and waterways. Avoid use of water.*
Containment Procedures	*Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.*
Cleanup Procedures	*Avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.*
Other Information	*The North American Emergency Response Guidebook, the Australian Dangerous Goods-Initial Emergency Response Guide (SAA/SNZ HB 76), or similar resources providing emergency response information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.*
Prohibited Materials	*Combustible absorbent material such as sawdust, use of equipment that may cause sparking.*

Reporting Requirements

Report releases that reach surface water or groundwater in any amount. Spills, leaks, and overfills from a regulated underground storage tank should also be reported. Reportable quantities for spills onto the ground depend on site conditions, such as the type of soil and the type of material spilled, and Federal and local agencies often have different reportable quantities. If you are unsure of your reporting requirements contact the regulating agency in your area.

Section 7 ● HANDLING AND STORAGE ● Section 7

Precautions for Safe Handling and Use

KEEP OUT OF THE REACH OF CHILDREN. When using in spray application, conformance to NFPA 33 Spray Applications using Flammable and Combustible Materials is recommended.

Storage Requirements and Conditions

For storage of all materials, conform to NFPA 30 Flammable and Combustible Liquids. Keep containers tightly closed and stored in a well-ventilated place. Keep away from sources of ignition.

Store in a dry well-ventilated area out of direct sunlight and away from heat and ignition sources. Store within recommended temperature range. Store away from incompatible materials, such as amines, alcohols, acids, bases, metal compounds and water which may react vigorously and/or violently.

Special Packaging Materials

Not applicable.

Section 8 ● EXPOSURE CONTROLS / PERSONAL PROTECTION ● Section 8

Occupational Exposure Limits

ID	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	UNITED STATES ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3	N/E	N/E	N/E	N/E	N/E	N/E	N/E
4	N/E	N/E	N/E	N/E	N/E	N/E	N/E
5	500 ppm	350 mg/m3	20000 mg/m3	100 ppm	790 mg/m3	N/E	N/E
6	0.02 ppm (C)	0.005 ppm	75 mg/m3	0.005 ppm	0.02 mg/m3	0.05 mg/m3	0.05 mg/m3
7	15 mg/m3	10 mg/m3	N/E	10 mg/m3	2 mg/m3	N/E	2 mg/m3
8	3.5 mg/m3	3.5 mg/m3 1750	1750 mg/m3	3.5 mg/m3	3 mg/m3	N/E	1 mg/m3
9	N/E	N/E	N/E	N/E	N/E	N/E	N/E
10	15 mg/m3	N/E	5000 mg/m3	10 mg/m3	10 mg/m3	N/E	1 mg/m3
11	N/E	N/E	N/E	N/E	0.02 mg/m3	N/E	N/E
12	5 mg/m3	N/E	2500 mg/m3	5 mg/m3	10 mg/m3	N/E	3 mg/m3

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWAEV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3	N/E	N/E	N/E	N/E	N/E	N/E	N/E
4	N/E	N/E	N/E	N/E	N/E	N/E	N/E
5	100 ppm	290 mg/m3	525 mg/m3	100 ppm	100 ppm	N/E	N/E
6	0.005 ppm	0.005 ppm	0.005 ppm	0.005 ppm	0.02 mg/m3	0.02 mg/m3	N/E
7	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	N/E
8	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	N/E
9	N/E	N/E	N/E	N/E	N/E	N/E	N/E
10	5 mg/m3	10 mg/m3	10 mg/m3	5 mg/m3	10 mg/m3	10 mg/m3	N/E
11	0.005 ppm	0.005 ppm	N/E	0.005 ppm	N/E	0.02 mg/m3	N/E
12	5 mg/m3	1 mg/m3	5 mg/m3	5 mg/m3	N/E	N/E	N/E

Engineering Measures

Because of the high potential hazard associated with isocyanates, consider the use of fully enclosed handling systems to control air concentration levels below the recommended exposure levels. Local exhaust ventilation may be necessary wherever materials containing isocyanates are handled, processed or cured, especially if heating or spraying is involved. Supply sufficient air to replace air removed by exhaust ventilation systems.

Biological Exposure Indices

None established.

General Hygiene Considerations	*Avoid breathing vapors and contact with the skin and eyes. Always replace lid when not in use. Keep out the reach of children. Wash hands after use.*
Thermal Hazards	*This product does not present a thermal hazard.*

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection	*A NIOSH approved air-purifying respirator with an organic vapor cartridge approved for use in isocyanate containing environments may be permissible under certain circumstances where concentrations are expected to exceed exposure limits. In spray applications you must protect against exposure to both vapor and spray mist. Protection provided by air-purifying systems is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, where exposure levels are not known, or any other situation where air purifying respirators may not provide adequate protection. In the United States ensure compliance with OSHA standard 29 CFR 1910.134.*
Skin Protection	*Ensure any exposed skin is covered by using chemical protective boots, gloves, coveralls, and/or other resistant protective clothing.*
Eye/Face Protection	*Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles or a full face shield are recommended.*
Other Protective Equipment	*Safety showers and eye-wash stations should be available in the workplace near where the material will be used.*

Section 9 ● PHYSICAL AND CHEMICAL PROPERTIES ● Section 9

Boiling Point	*> 284 °F (140.0 °C)*	Melting / Freezing Point	*Not Available*
Flash Point	*> 106 °F (41.1 °C)*	Autoignition Temperature, Liquid	*444 °F (229.0 °C)*
Explosive Limits	*0.60% to 6.50%*	Decomposition Temperature	*Not Available*
Flammability	*Class II Liquid*	Density (H_2O = 1)	*1.029 - 1.053 g/cc*
Molecular Weight	*Not Available*	Weight	*8.584 - 8.784 lbs/gal*
Vapor Pressure	*38 mm Hg*	pH	*Not Available*
Vapor Density	*4.5 g/cc Maximum*	Evaporation Rate (BuAC = 1)	*4.5 for Solvent*
Physical State	*Liquid*	Partition Coefficient	*Not Available*
Viscosity	*200-500 cps @ 25 °C*	Refractive Index	*Not Available*
Odor Threshold	*Not Available*	Heat of Combustion	*Not Available*
Odor	*Paint-like*	Water Solubility	*Not Available*
Appearance / Color	*Colored liquid*		

Percent Volatile	Black *30% Wt (36% Vol) Max*	VOC Content	*295 g/L*
	Semi-Gloss *27% Wt (33% Vol) Max*		*270 g/L*
	Clear *30% Wt (36% Vol) Max*		*301 g/L*
	Silver *31% Wt (37% Vol) Max*		*317 g/L*
	Gray *33% Wt (39% Vol) Max*		*333 g/L*
Percent VOC	Black *30% Wt (36% Vol) Max*	HAP Content	*None*
	Semi-Gloss *27% Wt (33% Vol) Max*		*None*
	Clear *30% Wt (36% Vol) Max*		*None*
	Silver *31% Wt (37% Vol) Max*		*None*
	Gray *33% Wt (39% Vol) Max*		*None*

Solids Content	Black	*71% Wt (65% Vol) Max*	Maximum Incremental Reactivity	*1.423*
	Semi-Gloss	*74% Wt (68% Vol) Max*		*1.279*
	Clear	*71% Wt (65% Vol) Max*		*2.245*
	Silver	*69% Wt (64% Vol) Max*		*2.174*
	Gray	*68% Wt (62% Vol) Max*		*2.433*

Section 10 ● STABILITY AND REACTIVITY ● Section 10

Stability	*Stable*
Physical Hazards	*Combustible liquid*
Conditions to Avoid	*Moisture, heat, direct sunlight*
Hazard Polymerization	*May undergo uncontrolled exothermic polymerization upon contact with incompatible materials, especially strong bases, such as triethylamine and sodium hydroxide, trialkyl phosphines, potassium acetate, many metal compounds soluble in organic media, or if heated above 175 °C.*
Material Incompatibility	*Strong oxidizing agents, alcohols, halogenated hydrocarbons, acids, alkalis, alkali metals, water*
Conditions of Reactivity	*Heat, sparks, flame, red hot metal*
Decomposition Products	*4,4'-Methylene Dianiline (formed by reaction of isocyanates with water)*

Section 11 ● TOXICOLOGICAL INFORMATION ● Section 11

Irritancy of Product	*The following ingredients are skin irritants: Methylene Bisphenyl Isocyanate (MDI), Methylene Diphenyl Diisocyanate (Crude MDI), Polymeric Diphenlmethane Polyisocyanate. The following ingredients are respiratory irritants: Methylene Bisphenyl Isocyanate (MDI), Methylene Diphenyl Diisocyanate (Crude MDI), Polymeric Diphenlmethane Polyisocyanate.*
Sensitization to Product	*The following ingredients are considered skin and respiratory sensitizers: Methylene Bisphenyl Isocyanate (MDI), Methylene Diphenyl Diisocyanate, Polymeric Diphenlmethane Polyisocyanate.*
Carcinogen Data	*Carbon Black is listed with IARC as Class 2B (possible human carcinogen) and is listed with ACGIH as A4 (not classifiable as a human carcinogen). Carbon Black is also listed with the States of California and Minnesota as a known carcinogen.*
Reproductive Toxicity	*None of the ingredients are known or suspected reproductive toxins*
Teratogenicity	*None of the ingredients are known or suspected teratogens*
Mutagenicity	*The following ingredients are considered mutagens: Carbon Black*
Synergistic Products	*No known synergistic properties.*

LD_{50} and LC_{50} Information

ID	ORAL LD50	DERMAL LD50	INHALATION LC50
1	*Not Available*	*Not Available*	*Not Available*
2	*Not Available*	*Not Available*	*Not Available*
3	*4700 mg/kg, rat*	*4000 mg/kg, rabbit*	*3670 ppm /8hr, rat*
4	*Not Available*	*Not Available*	*Not Available*
5	*Not Available*	*500 mg/kg, rabbit*	*Not Available*
6	*>10000 mg/kg, rat*	*> 10000 mg/kg, rabbit*	*490 mg/m3 /4hr, rat*
7	*Not Available*	*Not Available*	*Not Available*
8	*> 8000 mg/kg, rat*	*>3000 mg/kg, rabbit*	*Not Available*
9	*9200 mg/kg, rat*	*>10000 mg/kg, rabbit*	*490 mg/m3 /4hr, rat*
10	*>24000 mg/kg, rat*	*>10000 mg/kg, rabbit*	*>6.82 mg/L /4hr, rat*
11	*>10000 mg/kg, rat*	*>6200 mg/kg, rabbit*	*490 mg/m3 /4hr, rat*
12	*>5000 mg/kg, rat*	*>2000 mg/kg, rabbit*	*Not Available*

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Section 12 ● ECOLOGICAL INFORMATION ● Section 12

Mobility	*Not Available*	Degradibility	*Not Available*
Persistance	*Not Available*	Bioaccumulation	*Not Available*
Other Ecologic Data	*Do not allow to enter waters, waste water, or soil.*		
Effects on the Ozone Layer	*This product does not contain any ozone depleting ingredients.*		

Ecotoxicity

ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	Not Available	Not Available	Not Available	Not Available
2	Not Available	Not Available	Not Available	Not Available
3	LC50: 320 mg/L /48 hr	EC50: 170 mg/L /24 hr	EC50: 56 mg/L /72 hr	Not Available
4	Not Available	Not Available	Not Available	Not Available
5	Not Available	Not Available	Not Available	Not Available
6	LC50: >500 mg/L /24 hr	EC50: >500 mg/L /24 hr	Not Available	Not Available
7	NOEC: >100 mg/L /48 hr	NOEC: >100 mg/L /48 hr	NOEC: >100 mg/L /72 hr	Not Available
8	NOEC: 1000 mg/L /96 hr	EC50: >5600 mg/L /24 hr	Not Available	EC0: >100 mg/L /3 hr
9	Not Available	Not Available	Not Available	Not Available
10	LC50: >1000 mg/L /48 hr	Not Available	Not Available	Not Available
11	Not Available	Not Available	Not Available	Not Available
12	Not Available	Not Available	Not Available	Not Available

Section 13 ● DISPOSAL CONSIDERATIONS ● Section 13

Waste Disposal	*Hazard characteristics and regulatory waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste material must be disposed of in compliance with the respective national, federal, state, and local codes.*
Waste Disposal of Packaging	*Consult with your local landfill to determine if empty small containers can be disposed of regular trash pickup. – For disposal of large containers (typically 10 gallon or larger), or for containers not suitable for landfill, containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.*

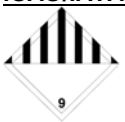
Landfill Precautions	*Not Available*	Incineration Precautions	*Not Available*

Section 14 ● TRANSPORTATION INFORMATION ● Section 14

DOT SHIPPING INFORMATION (United States)

PROPER SHIPPING NAME: . . . *Consumer Commodity*
HAZARD CLASS: . . . . . *ORM-D*
PACKING GROUP: . . . . . *–*
UN or ID NUMBER: . . . . . *–*
NAERG GUIDE NUMBER: *171*

ICAO/IATA SHIPPING INFORMATION (International Air)

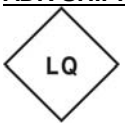


PROPER SHIPPING NAME: . . *Consumer Commodity*
HAZARD CLASS: *9*
PACKAGING GROUP: . . . . . *–*
UN or ID NUMBER: *ID8000*

IMDG SHIPPING INFORMATION (International Ocean)

PROPER SHIPPING NAME: . . . *Paint Related Material,*
. . . . . *Limited Quantity*
CLASS: *3*
PACKAGING GROUP: . . . . . *III*
SUBSIDIARY RISK(S): . . . . . *–*
UN or ID NUMBER: *UN1263*
PACKING INSTRUCTIONS: . . . *P001*
EmS NO.: . . . . . *F-E, S-E*
STOWAGE: . . . . . *Category B*
MFAG NO.: *310, 313*

ADR SHIPPING INFORMATION (European Union)



PROPER SHIPPING NAME: . . . *Paint Related Material,*
. . . . . *Limited Quantity*
ADR CLASS: *3*
PACKAGING GROUP: . . . . . *III*
UN or ID NUMBER: *UN1263*
CLASSIFICATION CODE: *F1*
HAZARD IDENTIFICATION NO: *33*
EMERGENCY ACTION CODE: . ●*3YE*

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TDG SHIPPING INFORMATION (Canada)

LIMITED QUANTITY

PROPER SHIPPING NAME: . . . *Paint Related Material,*
. . . . . *Limited Quantity*
HAZARD CLASS: *3*
PACKAGING GROUP: . . . . . *III*
UN or ID NUMBER: *UN1263*

NMFC DESCRIPTION (United States)

ITEM DESCRIPTION: *Paint Related Material*
ITEM NUMBER: *149980 Sub 2*
CLASS: *55*

Section 15 ● REGULATORY INFORMATION ● Section 15

United States - Federal

ID	TSCA INVENTORY	SARA 302 EHS	RCRA	CERCLA	SARA 313	SARA 311/312 FIRE	SARA 311/312 REACTIVITY	SARA 311/312 ACUTE	SARA 311/312 CHRONIC	SARA 311/312 PRESSURE	CLEAN AIR ACT	CLEAN WATER ACT
1	✓	—	—	—	—	—	—	—	—	—	—	—
2	✓	—	—	—	—	—	—	—	—	—	—	—
3	✓	—	—	—	—	✓	—	✓	✓	—	—	—
4	✓	—	—	—	—	—	—	—	—	—	—	—
5	✓	—	—	—	—	✓	—	✓	✓	—	—	—
6	✓	—	—	5000#	10 %	—	—	✓	✓	—	—	—
7	✓	—	—	—	5 %	—	—	—	—	—	—	—
8	✓	—	—	—	—	—	—	✓	✓	—	—	—
9	✓	—	—	—	—	—	—	✓	✓	—	—	—
10	✓	—	—	—	—	—	—	—	—	—	—	—
11	✓	—	—	—	—	—	—	✓	✓	—	—	—
12	✓	—	—	—	—	—	—	✓	✓	—	—	—

United States - States

ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—
5	—	—	✓	2,4	—	ANO	—	—	✓
6	—	✓	✓	2,4 F8 F9	E	ANO	—	✓	✓
7	—	✓	✓	4,5 F1 F9	E	A	✓	—	✓
8	C	—	—	2,4 F5	—	ANOR*	—	—	✓
9	—	—	—	—	—	—	—	—	—
10	—	—	—	4	—	A	—	—	✓
11	—	✓	—	—	—	—	—	—	—
12	—	—	—	—	—	—	—	—	—

United States - Massachusetts, Right-to-Know Extraordinarily Hazardous Substance List

TRACE CONTENT	TRACE COMPONENTS	CAS NUMBER
40-45 ppm	Hydrochloric Acid	007647-01-0
1 - 5 ppm	Furan	000110-00-9
1 - 5 ppm	Propylene Oxide	000075-56-9

United States - California, Proposition 65

TRACE CONTENT	TRACE COMPONENTS	CAS NUMBER
1 - 5 ppm	Furan	000110-00-9
1 - 5 ppm	Propylene Oxide	000075-56-9
< 1 ppm	Acetaldehyde	000075-07-0
< 1 ppm	Cobalt and Cobalt Compounds	007440-48-4

This product contains chemical(s) known to the State of California to be Carcinogenic. (see table above)

Canada

ID	WHMIS CATEGORIES A	B	C	D1A	D1B	D2A	D2B	D3	E	CHEMICAL LISTS DSL	NDSL	NPRI	CWC
1	—	—	—	—	—	—	—	—	—	✓	—	—	—
2	—	—	—	—	—	—	—	—	—	—	✓	—	—

MATERIAL SAFETY DATA SHEET

CONFORMS TO THE GLOBALLY HARMONIZED SYSTEM (GHS), ANSI Z400.1-2004, EU DIRECTIVE 91/155/EEC & 99/45/EC, OSHA 29 CFR 1910.1200, NOHSC:2011(2003), AND CANADIAN CPR

	WHMIS CATEGORIES									CHEMICAL LISTS			
ID	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
3	—	B3	—	—	—	—	—	—	—	✓	—	5	—
4	—	—	—	—	—	—	—	—	—	—	✓	—	—
5	—	B3	—	—	—	✓	—	—	—	✓	—	5	—
6	—	—	—	✓	—	✓	✓	—	—	✓	—	1A	—
7	—	B6	—	—	—	—	—	—	—	✓	—	1A	—
8	—	—	—	—	—	✓	—	—	—	✓	—	—	—
9	—	—	—	—	—	—	—	—	—	✓	—	—	—
10	—	—	—	—	—	✓	—	—	—	✓	—	—	—
11	—	—	—	✓	—	✓	✓	—	—	✓	—	1A	—
12	—	—	—	—	—	—	—	—	—	✓	—	5	—

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.

European Union

CODE	RISK PHRASES
R 15	Contact with water liberates extremely flammable gases
R 20	Harmful by inhalation
R 36/37/38	Irritating to eyes, respiratory system, and skin
R 40	Possible risks of irreversible effects
R 42/43	May cause sensitization by inhalation and skin contact
R 45	May cause cancer
R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R 65	Harmful: may cause lung damage if swallowed

CODE	SAFETY PHRASES
S 1/2	Keep locked up and out of the reach of children
S 7/9	Keep container tightly closed and in a well ventilated place
S 23	Do not breath gas/fumes/vapour/spray
S 43	In case of fire use dry chemical
S 53	Avoid exposure
S 62	If swallowed do not induce vomiting, seek medical advise immediately

RoHS Compliance

This product is RoHS compliant according to the definitions and restrictions given by Directive 2002/95/EC and The Council of January 27, 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Australia

Poisons Schedule Number — *None of the ingredients are present at or above a concentration necessary for allocation of a Poisons Schedule Number.*

Chemical Inventory Status — *All of the ingredients are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.*

Section 16 ● OTHER INFORMATION ● Section 16

Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

Revision History

Revision 1, 08/11/2010, Original
Revision 2, 07/27/2011, Added CAS and EC Numbers for some of the ingredients
Revision 3, 09/30/2011, Corrected VOC Content values and trade secret information