

PERFORMANCE
EPOXY-COAT®
The Original High Performance Coating Kits

169 N. Gratiot
Mt. Clemens, MI 48043

P: (800) 841-5580
F: (586) 468-8440
Epoxy-Coat.com

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture
Product Name: POLY 200
Product Code: EC -212

Intended Use of the Product

Coating for Marine Products, corrosion, concrete. For professional use only.

Name, Address, and Telephone of the Responsible Party Company

PERFORMANCE DECK-COAT
169 North Gratiot Ave.
Mt. Clemens, MI 48043
Toll Free: 1 800 841 5580

Emergency Telephone Number

Emergency Number : CHEMTREC Within USA and Canada: 1-800-424-9300 CCN709733 or
+1-703-527-3887 (collect calls accepted) +1-703-741-5500 (from anywhere in the world)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS-US/CA Classification

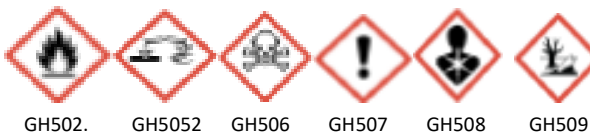
Flam. Liq. 3	H226
Acute Tox. 2 (Inhalation:dust,mist)	H330
Skin Corr. 1C	H314
Eye Dam. 1	H318
Resp. Sens. 1	H334
Skin Sens. 1	H317
STOT SE 3	H335
STOT SE 3	H336
Aquatic Acute 3	H402
Aquatic Chronic 2	H411

Full text of hazard classes and H-statements : see section 16 2.2.

Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA):



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Signal Word (GHS-US/CA) : Danger

Hazard Statements (GHS-US/CA) : H226 - Flammable liquid and vapor.

- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H330 - Fatal if inhaled.
- H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H402 - Harmful to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US/CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- P233 - Keep container tightly closed.
- P240 - Ground/bond container and receiving equipment.
- P241 - Use explosion-proof electrical, ventilating, and lighting equipment.
- P242 - Use only non-sparking tools.
- P243 - Take action to prevent static discharges.
- P260 - Do not breathe mist, spray, vapors, fume.
- P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves, protective clothing, and eye protection.
- P284 - [In case of inadequate ventilation] wear respiratory protection.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor.
- P320 - Specific treatment is urgent (see section 4 on this SDS).
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P362+P364 - Take off contaminated clothing and wash it before reuse.
- P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.
- P391 - Collect spillage.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up.

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P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Diisocyanates have an exothermic reaction with acids, alkalis, amines, powerful oxidants, alcohols. Reacts with water to produce carbon dioxide, pressure may build up in closed containers increasing the danger of bursting. Hazardous polymerization may occur.

Unknown Acute Toxicity (GHS-US/CA)

No data available

Substance

Not applicable

Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Isophorone diisocyanate	Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl- / 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate / Isocyanic acid, methylene(3,5,5-trimethyl-3,1-cyclohexylene) ester / 1-Isocyanato-3-isocyanatomethyl-3,5,5-trimethylcyclohexane / IPDI / 5-Isocyanato-1-(isocyanatomethyl)-1,3,3-Trimethylcyclohexane	(CAS-No.) 4098-71-9	29 – 32	Acute Tox. 4 (Dermal), H312 Acute Tox. 1 (Inhalation:dust,mist), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 2, H411

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
POLY 200 Propylene glycol monomethyl ether acetate	Acetate, 1-methoxy-2-propyl / Acetic acid, 2-methoxy-1-methylethyl ester / 2-Methoxy-1-methylethyl acetate / 1-Methoxy-2-acetoxypropane / 1-Methoxy-2-propanol acetate / 1-Methoxypropyl-2-acetate / 2-Propanol, 1-methoxy-, acetate / Propylene glycol methyl ether acetate / 1-Methoxypropylacetate / 1-Methoxy-2-propyl acetate / Methoxyisopropyl acetate / 1-	(CAS-No.) 108-65-6	18 – 20	Flam. Liq. 3, H226 STOT SE 3, H336

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
	Methoxypropyl acetate / 2-			

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Propanol, 1-methoxy-, 2-
 acetate / 2-Acetic acid
 methoxy-1-methylethyl ester
 / METHOXYISOPROPYL
 ACETATE / Propylene glycol
 methyl ether acetate, .alpha.
 -isomer / PGMEA / 1-
 Methoxypropan-2-yl acetate
 / Acetic acid, 2-
 methoxyisopropyl ester /
 1-Methoxypropan-2-ol acetate

Carbamic acid, 1,6-
 hexanediylbis-, bis[2-[2-(1-
 methylethyl)-3-
 oxazolidinyl]ethyl] ester

Bis[2-[2-(1-methylethyl)-3-
 oxazolidinyl]ethyl] hexan-1,
 2-diylbiscarbamate / Incozol 2
 / Carbamic acid, 1,6-
 hexanediylbis-, C,C'-bis[2-[2-
 (1-methylethyl)-3-
 oxazolidinyl]ethyl] ester /
 Carbamic acid, N,N'-1,
 6-hexanediylbis-, C,C'-bis[2-
 [2-(1-methylethyl)-3-oxazolidinyl
]ethyl] ester / INCOZOL 2 /
 Bis(2-(2-(propan-2-yl)-1,3-
 oxazolidin-3-
 yl)ethyl)hexane-1,6-
 diylbiscarbamate

(CAS-No.) 59719-67-4

12-15

Eye Irrit. 2A, H319
 Skin Sens. 1B, H317
 Aquatic Acute 3, H402
 Aquatic Chronic 2, H411

Name
 Poly[oxy(methyl-1,2-
 ethanediyl)], .alpha.-(2-
 aminomethylethyl)-.omega.-
 (2-aminomethylethoxy)-

Synonyms
 Propylene glycol diamine, 2-
 amino-, diether with
 Propylene / Jeffamine D-230 /
 Diaminopolypropylene glycol /
 Polypropylene glycol
 bis(aminopropyl) ether /
 Polypropylene glycol bis
 (2-aminopropyl) ether /
 Poly(oxypropylene)diamine /
 Reaction products of propane-
 1,2-diol, propoxylated by
 amination of the terminal
 hydroxyl groups /
 Poly(oxy(methyl-1,2-ethanediyl)),
 .alpha.-(2-aminomethylethyl)
 -.omega.-(2-aminomethylethoxy)-
 / O,O'-Bis(2-
 aminopropyl)polypropylene
 glycol / .alpha.-[2-
 (Aminomethyl)ethyl]-

Product Identifier
 (CAS-No.) 9046-10-0

% *
 8 – 10

GHS Ingredient Classification
 Skin Corr. 1C, H314
 Eye Dam. 1, H318
 Aquatic Acute 3, H402
 Aquatic Chronic 3, H412

Name
 .omega.-(2-
 aminomethylethoxy)poly[oxy

Synonyms
 .omega.-(2-
 aminomethylethoxy)poly[oxy

Product Identifier

% *

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(methylethylene)] / Reaction products of di-, tri- and tetrapropoxylated propane-1,2-diol with ammonia / Poly(propyleneglycol)diamine

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Glyceryl polypropylene glycol triether	Poly(oxypropylene) triol / Glycerol poly(oxypropylene)triol / Glyceroltri(polyoxypropylene) ether / Glycerol, propoxylated / Glyceryl polypropylene glycol ether / Poly(oxypropylene) glycerol triether / Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.', .alpha.'"-1,2,3-propanetriyltris[.omega.-hydroxy- / Polypropylene glycol glycerol triether / 1,2,3-Propanetriol, methyloxirane polymer / Propylene oxide-glycerol polymer / Trihydroxy polyoxypropylene ether (330) / Glycerol propylene oxide polymer / PPG-10 GLYCERYL ETHER / Glycerin propoxylate / Glycerol propoxylated / Propoxylated glycerin / Polyoxypropylene glycerin ether / Polyoxypropylene (10) glyceryl ether / Trihydroxypolyoxypropylene ether(330) / Laprol 3003 / Poly(oxy(methyl-1,2-ethanediyl)), .alpha.,.alpha.', .alpha.'"-1,2,3-propanetriyltris (.omega.-hydroxy- / Laprol-503 / Polyoxypropylene glycerol ether / Polyoxypropylene glyceryl ether / .alpha.,.alpha.', .alpha.'"-1,2,3-Propanetriyltris[.omega.-hydroxypoly-[oxy(methyl-1,2-ethanediyl)]] / Polypropylene glycol glycerol ether	(CAS-No.) 25791-96-2	8 – 10	Not classified

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Propylene carbonate	Carbonic acid cyclic methylethylene ester / Carbonic acid, cyclic propylene ester / Carbonic	(CAS-No.) 108-32-7	8 – 10	Eye Irrit. 2A, H319

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acid, propylene ester /
 Cyclic 1,2-propylene
 carbonate / Cyclic
 methylethylene carbonate
 / Cyclic propylene carbonate
 / 1,3-Dioxolan-2-one,
 4-methyl- / 4-Methyl-1,
 3-dioxolan-2-one / 4-Methyl-
 1,3-dioxolane-2-one /
 4-Methyl-2-oxo-1,3-dioxolane /
 1,2-Propanediol carbonate /
 1,2-Propanediol cyclic
 carbonate / 1,2-Propanediyl
 carbonate / 1,2-Propylene
 carbonate / Propylene glycol
 cyclic carbonate / 1,2-
 Propanediolcyclic carbonate /
 PROPYLENE CARBONATE /
 Propylene glycol carbonate

Name

Cyclohexanemethanamine,
 1,3,3-trimethyl-N-(2-
 methylpropylidene)-5-[(2-
 methylpropylidene)

Synonyms

1,3,3-Trimethyl-N-
 methylpropylidene)-5-
 [(2- methylpropylidene)
 amino]-amino]cycl
 ohexanemethylamine /
 N-Isobutylidene-3-
 [(isobutylidenamino)methyl]
 -3,5,5-
 trimethylcyclohexylamine /
 1,3,3-Trimethyl-N-
 (2-methylpropylidene)-5-
 [(2-methylpropylidene)amino]
 cycl ohexanemethanamine /
 2-Methyl-N-({1,3,3-trimethyl-
 5-[(2-
 methylpropylidene)amino]cycl
 ohexyl)methyl)-1-propanimine

Product Identifier

(CAS-No.) 54914-37-3

% *

2 – 3

GHS Ingredient Classification

Skin Corr. 1C, H314
 Eye Dam. 1, H318
 Skin Sens. 1A, H317
 Aquatic Acute 3, H402
 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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Inhalation: First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Fatal if inhaled. Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization. May cause respiratory irritation. May cause drowsiness and dizziness.

Inhalation: Fatal if inhaled. Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death. May be corrosive to the respiratory tract. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Skin Contact: Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None known.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, dry powder, and foam. In cases of large scale fires, alcohol-resistant foams are preferred. If water is used, it should be used in very large quantities. The reaction between water and isocyanate may be vigorous. Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: May form flammable or explosive vapor-air mixture. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. This product contains components,

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which in a fire may undergo hazardous polymerization and cause an explosion. Take all appropriate safety measures and precautions.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion. Diisocyanates may cause an exothermic reaction with acids, alkalis, amines, powerful oxidants, alcohols, and under heat. Reacts with water to produce carbon dioxide, pressure may build up in closed containers increasing the danger of bursting. May react with additional materials, see Incompatible Materials. 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Hydrogen cyanide. Isocyanates. Isocyanic acid. Ammonia. Ketones. Aldehydes. Toxic fumes.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE). Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Eliminate ignition sources. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.

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Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a spill.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. May release corrosive vapors. Polymerization with the generation of heat may occur in the presence of incompatible materials or extreme heat. Do not breathe vapors, mists, or spray. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, vapors, fume. Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take precautionary measures against static discharge. Use only non-sparking tools. Handle empty containers with care because they may still present a hazard. Use only outdoors or in a well-ventilated area. Use appropriate personal protective equipment (PPE).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in original container or corrosive resistant and/or lined container. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Keep in fireproof place.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Amines. Alkalis. Alcohols. Water. Copper and its alloys. Storage Temperature: 0 - 30 °C

Specific End Use(s)

Coating for Marine Products, corrosion, concrete. For professional use only.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Isophorone diisocyanate (4098-71-9)

USA ACGIH	ACGIH TWA (ppm)	0.005 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.045 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	0.005 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	0.18 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	0.02 ppm
Alberta	OEL TWA (mg/m ³)	0.05 mg/m ³
Alberta	OEL TWA (ppm)	0.005 ppm
British Columbia	OEL Ceiling (ppm)	0.01 ppm
British Columbia	OEL TWA (ppm)	0.005 ppm
Manitoba	OEL TWA (ppm)	0.005 ppm
New Brunswick	OEL TWA (mg/m ³)	0.045 mg/m ³
New Brunswick	OEL TWA (ppm)	0.005 ppm
Newfoundland & Labrador	OEL TWA (ppm)	0.005 ppm
Nova Scotia	OEL TWA (ppm)	0.005 ppm
Nunavut	OEL STEL (ppm)	0.015 ppm
Nunavut	OEL TWA (ppm)	0.005 ppm
Northwest Territories	OEL STEL (ppm)	0.015 ppm
Northwest Territories	OEL TWA (ppm)	0.005 ppm
Ontario	OEL Ceiling (ppm)	0.02 ppm (designated substances regulation (Isocyanates, organic compounds)
Ontario	OEL TWA (ppm)	0.005 ppm (designated substances regulation (Isocyanates, organic compounds) 0.005 ppm (applies to workplaces to which the designated substances regulation does not apply)
Prince Edward Island	OEL TWA (ppm)	0.005 ppm
Québec	VEMP (mg/m ³)	0.045 mg/m ³
Québec	VEMP (ppm)	0.005 ppm
Saskatchewan	OEL STEL (ppm)	0.015 ppm
Saskatchewan	OEL STEL (ppm)	0.005 ppm
Propylene glycol monomethyl ether acetate (108-65-6)		
USA AIHA	WEEL TWA (ppm)	50 ppm
British Columbia	OEL STEL (ppm)	75 ppm
British Columbia	OEL STEL (ppm)	50 ppm

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Ontario	OEL TWA (mg/m ³)	270 mg/m ³
Ontario	OEL TWA (ppm)	50 ppm

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases or vapors may be released. Gas detectors should be used when toxic gases may be released. Proper grounding procedures to avoid static electricity should be followed. Vapors may be uninhibited and polymerize, causing blockage of vents. Use explosion-proof equipment. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Not available
Odor	: Not available
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: Not available
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

SECTION 10: STABILITY AND REACTIVITY

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Reactivity: Prepolymers are reactive intermediates between monomeric Isocyanates and fully reacted polyurea polymers. Prepolymers contain reactive NCO groups which react with hydroxyl or amine groups to chain extend and crosslink the prepolymers. Reacts with water to produce carbon dioxide, pressure may build up in closed containers increasing the danger of bursting. May react with additional materials, see Incompatible Materials.

Chemical Stability: Flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

Possibility of Hazardous Reactions: Hazardous polymerization may occur on contact with incompatible materials or in the presence of heat.

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Amines. Alkalis. Alcohols. Water. Copper and its alloys.

Hazardous Decomposition Products:

Thermal decomposition generates: Corrosive vapors. Toxic fumes. May release isocyanate vapors. Hydrogen cyanide. Isocyanic acid.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Fatal if inhaled.

LD50 and LC50 Data:

Specguard SG-SCP20

ATE US/CA (dust, mist) 0.10 mg/l/4h

Additional information Fatal if inhaled

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation. May cause drowsiness or dizziness.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Fatal if inhaled. Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death. May be corrosive to the respiratory tract. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. High concentrations may cause central nervous system depression such as dizziness,

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vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Chronic Symptoms: None known.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Isophorone diisocyanate (4098-71-9)

LD50 Dermal Rabbit	1060 - 4780 mg/kg
LC50 Inhalation Rat	0.135 mg/l/4h
LC50 Inhalation Rat	0.031 mg/l/4h
ATE US/CA (dermal)	1,060.00 mg/kg body weight
ATE US/CA (vapors)	0.14 mg/l/4h

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)

LD50 Oral Rat	2885 mg/kg (Specoes: Sprague-Dawley)
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Propylene glycol monomethyl ether acetate (108-65-6)

LD50 Oral Rat	8532 mg/kg
LD50 Dermal Rabbit	5 g/kg

Glyceryl polypropylene glycol triether (25791-96-2)

LD50 Oral Rat	64 ml/kg
LD50 Dermal Rabbit	20 ml/kg

Propylene carbonate (108-32-7)

LD50 Oral Rat	29000 mg/kg
LD50 Dermal Rabbit	3000 mg/kg

Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] ester (59719-67-4)

LD50 Dermal Rat	2000 mg/kg
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Cyclohexanemethanamine, 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]- (54914-37-3)

LD50 Oral Rat	4150 mg/kg
LD50 Dermal Rat	5000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

Isophorone diisocyanate (4098-71-9)

EC50 Daphnia 1	83.7 mg/l
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Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)

EC50 Daphnia 1	80 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Crustacea	18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Propylene glycol monomethyl ether acetate (108-65-6)

LC50 Fish 1	161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
-------------	--

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EC50 Daphnia 1	500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Propylene carbonate (108-32-7)	
LC50 Fish 1	1000 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 1	500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] ester (59719-67-4)	
LC50 Fish 1	101 mg/l (Exposure time: 96 h - Species: Oryzias latipes)
EC50 Daphnia 1	87.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Semi-static])
ErC50 (algae)	18.6 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
NOEC Chronic Algae	0.0259 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
Cyclohexanemethanamine, 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]- (54914-37-3)	
LC50 Fish 1	53.7 mg/l (Exposure time: 96 h - Species: Danio rerio [Static])
EC50 Daphnia 1	14.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
ErC50 (algae)	73.6 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus [Static])
NOEC Chronic Crustacea	7.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Algae	7.6 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus [Static])
Persistence and Degradability	
Specguard SG-SCP20	
Persistence and Degradability	May cause long-term adverse effects in the environment.
Bioaccumulative Potential	
Specguard SG-SCP20	
Bioaccumulative Potential	
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
Log Kow	0
Propylene glycol monomethyl ether acetate (108-65-6)	
Log Pow	0
Propylene carbonate (108-32-7)	
Log Pow	0.43

Mobility in Soil

Specguard SG-SCP20

Ecology – Soil

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.



In Accordance with DOT

Proper Shipping Name : TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (Isophorone diisocyanate; Propylene glycol monomethyl ether acetate)

Hazard Class : 6.1

Identification Number : UN2929

Label Codes : 6.1, 3, 8

Packing Group : II

Marine Pollutant : Marine pollutant

ERG Number : 131



In Accordance with IMDG

Proper Shipping Name : TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (Isophorone diisocyanate; Propylene glycol monomethyl ether acetate)

Hazard Class : 6.1 (3, 8)

Identification Number : UN2929

Label Codes : 6.1, 3, 8

Packing Group : II

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

Marine pollutant : Marine pollutant

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In Accordance with IATA

Proper Shipping Name : TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (Isophorone diisocyanate; Propylene glycol monomethyl ether acetate)
 Hazard Class : 6.1 (3, 8)
 Identification Number : UN2929
 Label Codes : 6.1, 3, 8
 Packing Group : II
 ERG Code (IATA) : 6F



In Accordance with TDG

Proper Shipping Name : TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (Isophorone diisocyanate; Propylene glycol monomethyl ether acetate)
 Hazard Class : 6.1
 Identification Number : UN2929
 Label Codes : 6.1, 3, 8
 Packing Group : II
 Marine Pollutant (TDG) : Marine pollutant

Isophorone diisocyanate (4098-71-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
 Listed on the United States SARA Section 302
 Subject to reporting requirements of United States SARA Section 313

SARA Section 302 Threshold Planning Quantity (TPQ) 500 lb
 SARA Section 313 - Emission Reporting 1 %

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

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Propylene glycol monomethyl ether acetate (108-65-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

PMN - PMN - indicates a commenced PMN substance.

Glyceryl polypropylene glycol triether (25791-96-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Propylene carbonate (108-32-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Carbamic acid, 1,6-hexanediybis-, bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] ester (59719-67-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

PMN - PMN - indicates a commenced PMN substance.

Cyclohexanemethanamine, 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]- (54914-37-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Isophorone diisocyanate (4098-71-9)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)

U.S. - Illinois - Toxic Air Contaminants

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

RTK - U.S. - Massachusetts - Right To Know List

U.S. - Massachusetts - Toxics Use Reduction Act

U.S. - Michigan - Occupational Exposure Limits - Skin Designations

U.S. - Michigan - Occupational Exposure Limits - STELs

U.S. - Michigan - Occupational Exposure Limits - TWAs

U.S. - Minnesota - Chemicals of High Concern

U.S. - Minnesota - Hazardous Substance List

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U.S. - Minnesota - Permissible Exposure Limits - Skin Designations
U.S. - Minnesota - Permissible Exposure Limits - STELs
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Occupational Exposure Limits - Skin Designations
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Oregon - Permissible Exposure Limits - Ceilings
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - Skin Designations
U.S. - Tennessee - Occupational Exposure Limits - STELs
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - Skin Designations
U.S. - Vermont - Permissible Exposure Limits - STELs
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - Skin Designations
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Propylene glycol monomethyl ether acetate (108-65-6)

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

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Glyceryl polypropylene glycol triether (25791-96-2)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Propylene carbonate (108-32-7)

U.S. - Delaware - Volatile Organic Compounds Exempt from Requirements

U.S. - Massachusetts - Volatile Organic Compounds Exempt From Requirements

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] ester (59719-67-4)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Cyclohexanemethanamine, 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]- (54914-37-3)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

Isophorone diisocyanate (4098-71-9)

Listed on the Canadian DSL (Domestic Substances List)

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)

Listed on the Canadian DSL (Domestic Substances List)

Propylene glycol monomethyl ether acetate (108-65-6)

Listed on the Canadian DSL (Domestic Substances List)

Glyceryl polypropylene glycol triether (25791-96-2)

Listed on the Canadian DSL (Domestic Substances List)

Propylene carbonate (108-32-7)

Listed on the Canadian DSL (Domestic Substances List)

Carbamic acid, 1,6-hexanediylbis-, bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] ester (59719-67-4)

Listed on the Canadian DSL (Domestic Substances List)

Cyclohexanemethanamine, 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]- (54914-37-3)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

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Date of Preparation or Latest Revision : 05/09/2019
Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

Acute Tox. 1 (Inhalation:dust,mist)

Acute toxicity (inhalation:dust,mist) Category 1

Acute Tox. 2 (Inhalation:dust,mist)

Acute toxicity (inhalation:dust,mist) Category 2

Acute Tox. 4 (Dermal)

Acute toxicity (dermal) Category 4

Aquatic Acute 3

Hazardous to the aquatic environment - Acute Hazard Category 3

Aquatic Chronic 2

Hazardous to the aquatic environment - Chronic Hazard Category 2

Aquatic Chronic 3

Hazardous to the aquatic environment - Chronic Hazard Category 3

Eye Dam. 1

Serious eye damage/eye irritation Category 1

Eye Irrit. 2A

Serious eye damage/eye irritation Category 2A

Flam. Liq. 3

Flammable liquids Category 3

Resp. Sens. 1

Respiratory sensitization, Category 1

Skin Corr. 1C

Skin corrosion/irritation Category 1C

Skin Sens. 1

Skin sensitization, Category 1

Skin Sens. 1A

Skin sensitization, category 1A

Skin Sens. 1B

Skin sensitization, category 1B

STOT SE 3

Specific target organ toxicity (single exposure) Category 3

STOT SE 3

Specific target organ toxicity (single exposure) Category 3

H226

Flammable liquid and vapor

H312

Harmful in contact with skin

H314

Causes severe skin burns and eye damage

H317

May cause an allergic skin reaction

H318

Causes serious eye damage

H319

Causes serious eye damage

H330

Fatal if inhaled

H334

May cause an allergy or asthma symptoms or breathing difficulties if inhaled

H335

May cause respiratory irritation

H336

May cause drowsiness or dizziness

H402

Harmful to aquatic life

H411

Toxic to aquatic life with long lasting effects

H412

Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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