

PE-100 VRM B | SAFETY DATA SHEET (SDS)

SECTION 1 - IDENTIFICATION

Product identifier	PE-100 VRM B
Other means of identification	None
Recommended use and restrictions on use	Construction product / Refer to technical information
Initial supplier identifier	PUREPOXY 301, rue Omer-DeSerres #105, Blainville, Quebec, CANADA J7C 0K2 Phone – 438-492-4450
Emergency telephone number/restriction on use	Canada – CANUTEC 24 hour number 613-996-6666

SECTION 2 - HAZARD IDENTIFICATION

Classification of hazardous product
(name of the category or subcategory of the hazard class)

Acute aquatic toxicity - Category 2
Acute toxicity Dermal - Category 5
Acute toxicity Oral - Category 4
Chronic aquatic toxicity - Category 2
Reproductive Toxicity - Category 1B
Serious Eye Damage - Category 1
Skin Corrosion - Category 1B
Skin Sensitizer - Category 1
Specific Target Organ Toxicity - Repeated Exposure - Category 2

Information elements

(symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



H302 Harmful if swallowed
H313 May be harmful in contact with skin
H360 May damage fertility or the unborn child.
H318 Causes serious eye damage
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H373 May cause damage to organs through prolonged or repeated exposure.

P101 If medical advice is needed, have product container or label at hand. **P102** Keep out of reach of children. **P103** Read label before use. **P273** Avoid release to the environment. **P264** Wash thoroughly after handling. **P270** Do not eat, drink or smoke when using this product. **P201** Obtain special instructions before use. **P202** Do not handle until all safety precautions have been read and understood. **P280** Wear protective gloves/protective clothing/eye protection/face protection. **P260** Do not breathe dust/fume/gas/mist/vapors/spray. **P261** Avoid breathing dust/fume/gas/mist/vapors/spray. **P272** Contaminated work clothing should not be allowed out of the workplace. **P312** Call a POISON CENTER/doctor if you feel unwell. **P301 + P312** IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. **P330** Rinse mouth. **P391** Collect spillage. **P308 + P313** IF exposed or concerned: Get medical advice/attention. **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. **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 [or shower]. **P363** Wash contaminated clothing before reuse. **P304 + P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing. **321** Specific treatment (see section 4 on this SDS). **P302 + P352** IF ON SKIN: Wash with plenty of water. **P333 + P313** If skin irritation or a rash occurs: Get medical advice/attention. **P362 + P364** Take off contaminated clothing. And wash it before reuse. **P314** Get Medical advice/attention if you feel unwell. **H401** Toxic to aquatic life. **H411** Toxic to aquatic life with long lasting effects **P405** Store locked up. **P501** Dispose of contents/ container to an approved waste disposal plant.

Other Hazards Known

None

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name (common name/synonyms)	CAS NUMBER or other	Concentration (%)
CYCLOALIPHATIC AMINE	Secret	39 - 72
EPOXY POLYAMINE ADDUCT	N/A	12 - 22
PARATERTIARYBUTYLPHENOL	0000098-54-4	8 - 15
ISOPHORONEDIAMINE	0002855-13-2	8 - 14
4-NONYL PHENOL BRANCHED	0084852-15-3	1.7 - 3
POLYOXYPROPYLENEDIAMINE	0009046-10-0	1.4 - 2

All ingredients are listed according to OSHA (29 CFR).

* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

SECTION 4 - FIRST AID MEASURES

Inhalation	IF INHALED: Remove source of exposure or move person to fresh air and keep comfortable for breathing. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a doctor if you feel unwell.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (15-20 minutes). Wash contaminated clothing before reuse.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing.
Most important symptoms and effects (acute and delayed)	Causes severe skin, respiratory or digestive tract burns and eye damage.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.

SECTION 5 - FIREFIGHTING MEASURES

Specific hazards of the hazardous product (hazardous combustion products)	Carbon oxides and other irritant/toxic gases and fumes.
Suitable and unsuitable extinguishing media	In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish surrounding products.
Special protective equipment and precautions for fire-fighters	During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Absorb spillage to prevent material-damage. Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).
Methods and materials for containment and cleaning up	Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters (biological limit values or exposure limit values and source of those values)

Exposure limits: None known

Appropriate engineering controls

Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Individual protection measures/personal protective equipment

Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance / color	Light yellow liquid	Vapour pressure	Not available
Odour	Characteristic	Vapour density	Not available
Odour threshold	Not available	Relative density	Not available
pH	Not available	Solubility	Not available
Melting point / Freezing point	Not available	Partition coefficient of n-octanol/water	Not available
Initial boiling point/ranges	Not available	Auto-ignition temperature	Not available
Flash point	100°C	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	Not available
Flammability (solid, gas)	Not available	VOC	Not available
Upper/Lower flammability or explosive limits	Not available	Other	None know

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Does not react under the recommended storage and handling conditions prescribed.
Chemical Stability	Stable under the recommended storage and handling conditions prescribed.
Possibility of hazardous reactions	None known
Conditions to avoid (static discharge, shock or vibration)	Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system will cause buildup of pressure.
Incompatible materials	This product will react with epoxies, isocyanates, and strong oxidizing agents.
Hazardous decomposition products	Combustion products: organic vapors and thermal decomposition fragments.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	Causes severe skin burns and eye damage. Any contact should not be left untreated. Causes serious eye damage. Exposure may cause mucous membrane and respiratory tract irritation, tightness of chest, headache, shortness of breath, and a dry cough. The effects of acute exposure may be delayed in onset up to 12-24 hours. Repeated exposure above current occupational limits may cause an allergic sensitization of the respiratory tract. This is characterized by an asthma-like response upon re-exposure to the chemical. The symptoms may include coughing, wheezing, shortness of breath and chest tightness. May cause an allergic skin reaction
Symptoms related to the physical, chemical and toxicological characteristics	Skin burn, redness, stinging, pain; Eye burn, redness, tearing; Digestive tract burn; Respiratory tract burn, coughing, shortness of breath, dizziness, drowsiness, nausea and headaches.
Delayed and immediate effects (chronic effects from short-term and long-term exposure)	Skin Sensitization – Possible; Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity – May damage fertility or the unborn child; Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – generally aggravates the following medical conditions : Cardiovascular disease and Chronic respiratory disease. May cause damage to organs through prolonged or repeated exposure.; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.
Acute Toxicity	If ingested : In humans, irritation or chemical burns of the mouth, pharynx, esophagus and stomach can develop following ingestion, and injury may be severe and cause death. May be harmful in contact with skin Harmful if swallowed. 0009046-10-0 POLYOXYPROPYLENEDIAMINE; LD50 (dermal,rabbit): 2090 mg/kg (based on raw material SDS); LD50 (oral, rat): 480 mg/kg (based on raw material SDS); 0002855-13-2 ISOPHORONEDIAMINE ; LD50 (rat,oral): 1,030 mg/kg (based on raw material SDS)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial information)	Toxic to aquatic life. Toxic to aquatic life with long lasting effects
Persistence and degradability	No data available
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Information on safe handling for disposal/methods of disposal/contaminated packaging

Dispose of contents/container into safe container in accordance with local, regional or national regulations.

SECTION 14 - TRANSPORT INFORMATION

UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:

UN2735; UN Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE); CLASS 8; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):

UN2735; UN Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE); CLASS 8; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):

UN2735; UN Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE); CLASS 8; PG III

Special Precautions (transport/conveyance): None

Environmental hazards (IMDG or other): Marine Pollutant

Bulk transport (usually more than 450L in capacity): Possible

SECTION 15 - REGULATORY INFORMATION

Safety/health Canadian regulations specifics

Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Environmental Canadian regulations specifics

Refer to Section 3 for ingredient(s) of the DSL

Safety/health/environmental outside regulations specifics Bioaccumulative potential

United States OSHA information: This product is regulated according to OSHA (29 CFR).

United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.

United States TCSA information: Refer to the ingredients listed in Section 3.

National Fire Protection Association (NFPA)

HEALTH: 3 FLAMMABILITY: 1 INSTABILITY: 0 SPECIAL HAZARDS: Refer to Section 2 & 3.

HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SECTION 16 - OTHER INFORMATION

Date of the latest revision of the safety data sheet

February 4, 2020 version 5

Corrections

SDS Template modifications

References

Safety Data Sheets from manufacturer/supplier

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

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