

SAFETY DATA SHEET EPOXY SERIES URECO GTC LV – PART B

Section. 1. Product and Company Identification

Product Name: URECO EPOXY FLOORING SYSTEM PART B (HARDENER) GTC LV
Product Used: PIGMENTED RESIN COMPONENT OF AN EPOXY FLOORING SYSTEM
Product Details: Proprietary blend of polyaliphatic amines
Made by (Manufacturer): PowerBlast Canada
 3505 Le Corbusier
 Laval, Québec H7L 4Z4
 Tel: (450) 625-9344
 Fax: (450) 625-2877

Section. 2. Hazards Identification

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

Acute toxicity oral (Category 4)
 Acute toxicity dermal (Category 4)
 Skin corrosion (Category 1C)
 Serious eye damage (Category 1)
 Skin sensitization (Category 1)
 Specific target organ toxicity – Single exposure inhalation (Category 3)
 Reproductive toxicity (Category 2)
 Hazardous to the aquatic environment – Acute (Category 2)
 Hazardous to the aquatic environment - Chronic (Category 2)

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



Danger

H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H361 Suspected of damaging fertility or the unborn child.
 H401 Toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dusts or mists. P264 Wash hands/nails/face thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 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/ eye protection/ face protection.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P312 Call a doctor if you feel unwell. P302 + P352 IF ON SKIN: wash with plenty of water.
 P312 Call a doctor if you feel unwell.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P363 Wash contaminated clothing before reuse.
 P332 + P313 IF SKIN irritation or rash occurs: Get medical 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. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a doctor. P308 + P313 IF exposed or concerned: Get medical attention. P391 Collect spillage. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other hazards known	None
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SAFETY DATA SHEET
EPOXY SERIES
URECO GTC LV – PART B

Section. 3. Composition/Information On Ingredients

Hazardous ingredient	%	CAS number
Benzyl alcohol	25-40	100-51-6
cycloaliphatic polyamine	10-30	2855-13-2
Polypropyldiamine	25 – 40	9046-10-0
2-piperzine-1-ethylsmine	0 – 10	140-31-8
Propan 2,2 –bis {p-(2,3-epoxypropyl) phenyl}- polymer	3 – 10	25085-99-5

Section. 4. First Aid Measures

General Information:	The actions below are those necessary for any chemical which does not have any special medical effects. Contaminated clothing should be removed and washed before being re-used. Contains amino ethyl piperzine, benzyl alcohol, and other corrosive organic amines.
After Inhalation:	Remove victim to fresh air – if not breathing, qualified personnel should administer artificial respiration. If conscious and coughing or other symptoms do not subside, seek medical attention.
After Skin Contact:	Wash immediately with plenty of water and pH neutral soap or mild detergent for at least 15 minutes. Remove contaminated clothing and wash prior to re-use. Seek medical attention.
After Eye Contact:	Flush with plenty of water, holding eyes open. Seek medical attention promptly.
After Swallowing:	Immediately rinse mouth out with water and seek medical attention. Do not induce vomiting.
Additional information:	Inadvertent inhalation of vomited material may seriously damage the lungs. Do not mix with nitrites may form suspected cancer causing nitrosamines.
Note to Physician:	Symptomatic treatment and supportive therapy as indicated. Administer oxygen if necessary. Following severe exposure, the patient should be kept under medical review as needed.

Section. 5. Fire-Fighting Measures

Boiling point:	Not established (corrosive vapor evolution before boil)
Flash point:	>93°C not flammable
Auto Ignition point:	Not established
Upper flammable limit:	Not available
Lower flammable limit:	Not available
Explosion data:	
Sensitivity to static discharge:	Not sensitive.
Sensitivity to impact:	Not sensitive.
Rate of burning:	Not established as flammable.
Explosive power:	Not expected.
Hazardous combustion products:	Oxide of Carbon (carbon monoxide, carbon dioxide, CxOy).
T.D.G. flammability class:	Not applicable.
Fire Fighting Measures:	Contains Isopropyl alcohol.
Suitable Extinguishing Agents:	Use foam dry chemical or CO2.
Unsuitable extinguishing agents:	Do not use wet jet.
Combustion hazards:	Combustion will produce corrosive gases (ammonia, amine) oxides of carbon.
Protective Equipment:	Wear self-contained breathing apparatus, and full protective clothing.

SAFETY DATA SHEET
EPOXY SERIES
URECO GTC LV – PART B

Section 6. Accidental Release Measures

Personal precautions:	Keep unnecessary personnel away. Use suitable protective equipment.
Personal precautions:	Keep away from sources of ignition- No smoking. Avoid contact with skin, eyes and clothing or skin. Do not breathe vapors.
Environmental precautions:	Contain liquid to prevent contamination of soil, surface water or ground water. Flushing and water must be contained and prevented from entering into soil, waterways and groundwater. Large spills: contain with a dike.
Leak/spills:	Cover and soak up with a suitable absorbent material, such as: Sand. Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate protective equipment as described above. The uses of wet or dry HEPA vacuum can be used to clean up dry powder. Do not dry sweep this product with brooms. Do not use compressed air to clean up product. Collect all material in a suitable container and properly label container. Dispose of according to applicable regulations.
Waste disposal:	In accordance with municipal, provincial and federal regulations, follow in-house company procedures.

Section 7. Handling and Storage

Handling procedures:	Maintain good personal hygiene. Avoid skin and eye contact. Avoid breathing vapors of heated materials. Remove contaminated clothing and wash separately. Handle open containers with care, avoid splashing. Review section 8 for appropriate Personal Protective Equipment. Wash thoroughly after using, particularly before eating or smoking.
Storage:	Store in accordance with local regulations. Store in original containers in a dry cool place, away from incompatible materials (see section 10) and food and drink. Keep containers closed and sealed until ready for use.
Storage needs:	Store in a dry area. Store away from moisture. Keep bags tightly closed until use.

Section 8: Exposure Controls/Personal Protection

Exposure limits:	None established.
Personal Protection:	Prevention is essential in avoiding potential eye, skin and inhalation injury. Avoid contact with unhardened Epoxy resins. Where prolonged exposure to unhardened Epoxy resins might occur, wear impervious clothing and gloves to eliminate skin contact. Where exposure to heated resins is likely or unavoidable, use appropriate engineering controls to minimize vapor's.
Gloves/type:	Impervious chemically resistant disposable gloves.
Respiratory/type:	For most situations no respiratory protection should be needed. However, if discomfort is experienced, use an approved air-purifying respirator. An organic vapor cartridge mask should be used in compliance with established company guidelines. In case of insufficient ventilation, wear similar suitable respiratory equipment.
Eye/type:	Wear splash-proof chemical goggles.
Footwear/type:	Safety boots per local regulations.
Clothing/type:	Use dust impervious clothing.
Other/ type:	Portable eye wash facility should be available on site and in close proximity. Move to another area and wash hands prior to smoking and consuming food.
Ventilation requirements:	Use local exhaust or general dilution ventilation to control exposure to within applicable limits.

SAFETY DATA SHEET
EPOXY SERIES
URECO GTC LV – PART B**Section. 9. Physical and Chemical Properties**

Physical state:	liquid
Odour:	Characteristic amine like
Color:	very light yellow to Amber
Vapour pressure:	Not applicable
Vapour Density:	Not applicable
Evaporation rate:	Not applicable
Volatiles by (%):	0 %
Solubility in water:	Slightly (0.1 to 1.0%)
Specific gravity:	0.97 to 1.00 (water = 1)
Viscosity:	50 to 100 cps Brookfield # 2, 15 rpm 25°C
Chemical stability:	Product is stable
Hazardous polymerization:	Will not occur
Compatibility with other substance:	No: Organic and inorganic acids and nitrates
Reactivity, under which conditions:	Contact with incompatible substances, elevated temperatures.
Hazardous products of decomposition:	Ammonia.

Section. 10. Stability and Reactivity

Chemical Stability:	> Stable. Hazardous Polymerisation does not occur.
Conditions to avoid:	> excess heat
Incompatible Products:	> Acids, strong oxidizing agents, nitrates and nitrites
Decomposition Temperature:	> No data available
Hazardous Decomposition Products	> Ammonia
Possibility of Hazardous reactions:	> None under normal processing

Section. 11. Toxicological information

LD 50 Rat (oral):	> 1,000 mg/kg
LD 50 Rabbit (dermal):	> 800 mg/kg
LD 50 Rat (oral):	> 1,000 mg/kg
LD 50 Rabbit (dermal):	> 800 mg/kg
Toxic effects on Humans:	Skin: corrosive irritation has caused skin reactions when tested on guinea pigs.
Chronic effect on Humans:	Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
Irritancy of material:	Liquid and vapours can cause irritation on contact and at high concentrations.
Sensitizing of material:	Has caused allergic reactions in humans, did not causes allergenic skin when tested in mice.
Carcinogenic effects:	No reported data CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.
Teratogenicity:	Aminoethylethanolamine, the component has been classified as a Tetragenic in animal studies but there is no current data in human studies.
Mutagenicity:	No effects known, or reported
Reproductive effects:	No effects known, or reported

Section. 12. Ecological information

Biodegradability:	This product is not expected to be readily biodegradable.
Ecotoxicity data:	This product is harmful to aquatic and marine life.
Mobility:	The product is sparingly soluble in water.
Products of degradation:	No specific information available.

SAFETY DATA SHEET
EPOXY SERIES
URECO GTC LV – PART B

Section. 13. Disposal Considerations

Waste disposal: In accordance with municipal, provincial and federal regulations, follow in-house company procedures.

Section. 14. Transport information

UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations
UN1760; CORROSIVE LIQUID, N.O.S. (Isophorone diamine; Nonyl phenol); CLASS 8; PG III

UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)
UN1760; CORROSIVE LIQUID, N.O.S. (Isophorone diamine; Nonyl phenol); CLASS 8; PG III

UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)
UN1760; CORROSIVE LIQUID, N.O.S. (Isophorone diamine; Nonyl phenol); CLASS 8; PG III

Special precautions (transport/conveyance) May also be shipped as a LIMITED QUANTITY in accordance with TDG.
Environmental hazards (IMDG or other) None
Bulk transport (usually more than 450 L in capacity) Possible

Section. 15. Regulatory information

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

European Inventory of Existing Commercial Chemical Substances (EINECS)

Components of this product are not listed on EINECS because they are polymers or "no-longer polymers" marketed before the enforcement of the 7th Amendment to Directive 67/548/EEC.

US. Toxic Substances Control Act

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Carcinogenicity: by IARC?: Yes () No (X)

Cancer Information:

For the major component(s): Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA). Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBA is carcinogenic.

Status under WHMIS: WHMIS HAZARD CLASSIFICATION

Class D Division 1B, material causes immediate and serious toxic effects (toxic) Class D Division 2A, Material cause other toxic effect (very toxic) Class D 2B Material cause other toxic effect (toxic) Class E Corrosive, (Blend polyaliphatic amines) WHMIS SYMBOLS Test tube/hand, skull and cross bones D2B – eye or skin irritant D2B – skin sensitizer
This product has been classified in accordance with the hazard criteria of the hazardous product regulations and the SDS contains all of the information required by the HPR.

Section. 16. Other information

Hazard Rating (N.F.P.A.): Health: 3 Fire: 1 Reactivity: 0 Specific: Not applicable

**FOR EMERGENCIES INVOLVING DANGEROUS GOODS CALL CANUTEC'S 24-HOUR NUMBER
(613) 996-6666**

This N.F.P.A. rating is a recommendation by the manufacturer using the guidelines or published evaluations prepared by the National Fire Protection Association (N.F.P.A.).

Prepared at PowerBlast Canada Regulatory Affairs

450.625.9344

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