

Section 1: Product and Company Identification

1.1 Product Identifier

Trade Name Uroflex Part B
Product Number Not Available
Product Description Epoxy Formulation

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Protective Coating

1.3 Details of the Supplier of the Safety Data Sheet

Company EPOXYTEC INTL, INC.
DBA MCOR
3000 N 29 CT
HOLLYWOOD, FLORIDA 33020
Telephone (General): 954-961-4656

1.4 Emergency Telephone Number

3E Company N. America/S. America (+)1.760.476.3962
Contract # 14738 Europe (+)1.760.476.3962
Asia Pacific (+)1.760.476.3960
Middle East/Africa (+)1.760.476.3959

Section 2: Hazard(s) Identification

The product is classified and labeled according to the Globally Harmonized System (GHS) Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation (EC) No 1907/2006 (REACH).

2.1. Classification of the mixture

Component(s) Contributing to Classification(s)

All components listed in Section 3

2.2. GHS Label elements, including precautionary statements

Pictogram(s)		
Signal Word	Danger	
GHS Hazard Classification	Acute Toxicity Category 4 (Oral, Dermal, Inhalation) Skin Corrosion Category 1 Eye Damage Category 1 Skin Sensitization Category 1 Reproductive Toxicity Category 2 Aquatic Acute Category 2 Aquatic Chronic Category 2	
Hazard Statements	H302	Harmful if swallowed

	H312 H332 H314 H317 H361 H401 H411	Harmful in contact with skin Harmful if inhaled Causes severe skin burns and eye damage May cause an allergic skin reaction Suspected of damaging fertility or the unborn child Toxic to aquatic life Toxic to aquatic life with long lasting effects
Prevention Statements	P201 P202 P260 P264 P270 P272 P280 P273	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye and face protection. Avoid release to the environment.
Response Statements	P301+P330+P331 P308+P313 P304+P340+P312 P303+P361+P353 P305+P351+P338 P333+P313 P310 P363 P321 P314 P391	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/ attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Specific treatment (see section 4 of this SDS) Get medical advice/attention if you feel unwell. Collect spillage.
Storage/Disposal	P405 P501	Store locked up. Dispose of contents/ container to an approved waste disposal plant.

2.3 Other Hazards
None applicable

Section 3: Composition/Information on Ingredients

Chemical Characterization: Mixture

Description Mixture: Consisting of the following components

Materials	CAS #	EINECS #	Index #	Percentage	Classification
Fatty acids, C18 unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	614-452-7	Not Listed	30-60	Skin Irrit. Cat 2 Skin Sens Cat 1 Eye Dam. Cat 1 Aquatic Chronic 2
Benzyl alcohol	100-51-6	202-859-9	603-057-00-5	10-30	Acute Tox. Cat 4 (Oral, Dermal, Inhal) Eye Irrit Cat 2a Aquatic Acute Cat 2
Isophoronediamine	2855-13-2	220-666-8	612-067-00-9	10-30	Acute Tox. Cat 4 (Oral, Dermal)

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					Skin Corr. Cat. 1B Skin Sens Cat 1 Aquatic Acute Cat 3 Aquatic Chronic Cat 3
Polyamine reaction product	N/A	N/A	Not Listed	5-10	Skin Corr. Cat. 1B
Phenol, 4-nonyl-, branched	84852-15-3	284-325-5	601-053-00-8	1-5	Acute Tox. Cat 4 (oral) Skin Corr. Cat. 1B Repr. Cat 2 Aquatic Acute/Chronic Cat 1
Triethylenetetramine	112-24-3	203-950-6	612-059-00-5	0.1-1	Acute Tox. Cat 4 (Oral, Dermal) Skin Corr. Cat. 1B Skin Sens Cat 1 STOT SE Cat 3 Aquatic Acute Cat 3 Aquatic Chronic Cat 3
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	41556-26-7	255-437-1	Not Listed	0.1-1	Skin Sens Cat 1 Aquatic Acute Cat 1 Aquatic Chronic Cat 1
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	280-060-4	Not Listed	0.1-1	Skin Sens Cat 1 Aquatic Acute Cat 1 Aquatic Chronic Cat 1

Additional Information:

See SECTION 16 for full Classification phrases.

* Actual concentration of ingredients is Company Trade Secret - Business Confidential. The manufacturer is withholding the specific chemical identity under provision of WHMIS 2015 and the OSHA Hazard Communication Rule Trade Secrets (1910.1200(i)(1)). The specific chemical concentration will be made available to health professionals.

Section 4: First Aid Measures

4.1 Description of first aid measures**General advice**

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled,

If breathed in, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention.

In case of skin contact,

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Consult a physician.

In case of eye contact,

Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention.

If swallowed,

Wash out mouth with water. Remove dentures if any. Never give anything by mouth to an unconscious person. Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in toxicological effects on section 11

4.3 Indication of immediate medical attention and special treatment needed

No specific antidote. Treatment of exposure should be directed at the control of symptoms and clinical condition of the patient.

Section 5: Firefighting Measures

5.1. Extinguishing media

Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2. Specific hazards arising from the chemical

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

5.3. Special hazards arising from the substance or mixture

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics, Carbon monoxide, Carbon dioxide, Silicon dioxide.

5.4. Special firefighting Procedure

Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots, and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse.

Wear self-contained breathing apparatus and full protective clothing in case of fire.

Section 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Use appropriate respirator when ventilation is inadequate and use personal protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards.

6.2. Environmental precautions

Do not let product enter drains, do not allow to sewers/surface or ground water. See Section 12, Ecological information.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Vacuum or sweep up material and place in designated labeled waste container. Dispose of via a licensed waste disposal contractor. Wash thoroughly with soap and hot water after dealing with a spillage. For waste disposal, see section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see section 8 of SDS). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Use soap and water or a commercial hand cleaner. Person with a history of skin sensitization problems should not be employed in any process in which this product is used.

Handle with good mechanical ventilation and local exhaust. Avoid inhalation of vapor or mist. For precautions see section 2.2. Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of epoxy resin to catch fire.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight, keep container tightly closed in a dry and well-ventilated place, away from heat, and strong oxidizers. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end uses.

See section 1.2.

Section 8: Exposure Controls/Personal Protection

8.1. Control parameters

If user operations generate dust, fumes, gas, vapor, or mist use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The limit values must be followed strictly if dust form occurs during any of the use.

Ingredient	CAS #	Agency	Limit type
Fatty acids, C18 unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	No Data	No Data
Benzyl alcohol	100-51-6	No Data	No Data
Isophoronediamine	2855-13-2	No Data	No Data
Polyamine reaction product	N/A	No Data	No Data
Phenol, 4-nonyl-, branched	84852-15-3	No Data	No Data
Triethylenetetramine	112-24-3	WEEL	TWA: 1 ppm (skin)
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	41556-26-7	No Data	No Data
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	No Data	No Data

8.2. Personal Protective Equipment**8.3. Exposure controls****Respiratory Protection**

In case of inadequate ventilation wear respiratory protection. If product is machined, sanded or grinded, wear particulate respirators or other air-purifying respirators based on the specific airborne concentration found in the workplace.

Hand Protection

Wear chemical-resistant gloves such as: Nitrile, butyl rubber, neoprene, and polyvinyl chloride. Gloves should conform to EN374

Eye Protection

Safety eyewear complying with an approved standard should be used: chemical goggles or safety glasses with side shields.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the lavatory. Wash promptly if skin becomes wet or contaminated. When using do not eat, drink or smoke. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to workstation location.

Control of environmental exposure

Prevent spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties of Mixture**Appearance**

Form	Liquid
Color	Clear to grey
Odor	Mild epoxy odor
Odor Threshold	Not applicable
pH	Not applicable
Boiling Point (deg. C)	Not Available
Flash Point	>93°C (>200°F)
Evaporation Rate	Slower than Ether
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not Available
Vapour pressure	Not Available
Vapour density	Heavier than air
Relative density	0.81 g/cm ³
Solubility	Not established
Partition coefficient	Not established

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Auto-ignition temperature	Not established
Decomposition temperature	Not established
Viscosity	Not established
Weight per Gallon	7.06 +/- .1
Percent Volatile	Not Available

Section 10: Stability and Reactivity**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability

Stable under recommended storage conditions. See Storage, Section 7.

10.3 Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Thermal Decomposition and Conditions to be avoided

Heat, flames and sparks. Ignition sources.

10.5 Incompatible materials

Avoid contact with oxidizing materials.

10.6 Hazardous Decomposition Products

Nature of decomposition products unknown.

Section 11: Toxicological Information**11.1 Information on Toxicological Effects**

Epoxy Resin together with inorganic fillers. Toxicological data has not been determined for this product. The information is given below is based on main component of this product.

Toxicological information on ingredients:

Name	Route	Species	Value
Phenol, 4-nonyl-, branched	Ingestion	Rat	LD50 - 1,412 mg/kg
	Dermal		No data available
	Skin corrosion	Rabbit	Causes burns. - 4 h
	Eye irritation	Rabbit	Corrosive - 72 h
Fatty acids, C18 unsatd., dimers, reaction products with polyethylenepolyamines	Ingestion	Rat	LD50 - > 8000 mg/kg
Isophoronediamine	Inhalation	Rat	LC50- 4 h - > 5.01 mg/
	Oral	Rat	LD50 - 1,030 mg/kg
	Dermal	Rat	LD50 - > 2,000 mg/kg
	Skin irritation	Rabbit	Causes burns
	Eye irritant	Rabbit	Corrosive to eyes
Benzyl alcohol	Inhalation	Rat	LD50 - > 1,230 mg/kg
	Dermal	Rabbit	LD50: 2,000 mg/kg
	Eye Irritation	Rabbit	Causes serious eye damage. Corrosive

11.1.2 Mixtures

Acute toxicity	Acute Toxicity Category 4 (Oral, Dermal, Inhalation)
Skin corrosion / irritation	Skin Corrosion Category 1
Serious eye damage / irritation	Eye Damage Category 1
Respiratory or skin sensitization	Skin Sensitization Category 1
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Reproductive Toxicity Category 2
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met

Other Information

Eye damage/eye irritation : May cause damage to the eyes.

Skin corrosion/irritation : May cause skin burns. May cause an allergic skin reaction.

Inhalation : May cause respiratory irritation

Ingestion : Irritating to mouth, throat and stomach.

Carcinogenicity Classification

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

4-NONYLPHENOL, BRANCHED : Suspected human reproductive toxicant

Reproductive toxicity - Rat – Oral

4-NONYLPHENOL, BRANCHED: Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Physical. Suspected human reproductive toxicant.

Section 12: Ecological Information

12.1 TOXICITY:

No ecological information available on the specific mixture. The following is information for components.

Name	Toxicity to fish	Toxicity to daphnia	Toxicity to algae
Fatty acids, C18 unsatd., dimers, reaction products with polyethylenepolyamines	Golden Orfe LC50 – 2.3 mg/l	Daphnia Magna EC50 – 31.1 mg/l	Scenedesmus subspicatus EC50 – 2.5 mg/l
Benzyl alcohol	Bluegill sunfish LC50 – 10 mg/l	No data available	IC50 – 700 mg/l
Isophoronediamine	Golden Orfe LC50 (96 h): 110 mg/l	EC50 (48h) : 23 mg/l	EC50 (72 h): 37 mg/l

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12.2 PERSISTENCE AND DEGRADABILITY:

No data is available for product.

12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

12.4 MOBILITY IN SOIL:

No data is available for product.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

No specific data available on this product.

12.6 OTHER ADVERSE EFFECTS:

No specific data available on this product.

12.7 WATER ENDANGERMENT CLASS:

May be water endangering in accordance with EU Guideline 91/155-EWG. Do not allow product to reach ground water, water course or sewage system. At present there are no ecotoxicological assessments for this product

Section 13: Disposal Considerations

13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized. Do not dump into any sewers, on the ground, or into any body of water. For disposal of residual product, mix by weight 1 parts Part A with 1 parts Part B. Allow mix to solidify in well ventilated area or outdoors. Regulations may vary in different locations. Dispose of this product, and/or any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues.

Section 14: Transport Information

Road Transport: DOT / ADR

Proper Shipping Name : Amines, liquid, corrosive, n.o.s. (Isophoronediamine, Polyamines)
Hazard Class : 8
UN/ID Number : UN2735
Packing Group : III
Marine Pollutant : Yes

Air Transport: IATA/ICAO

Proper Shipping Name : Amines, liquid, corrosive, n.o.s. (Isophoronediamine, Polyamines)
Hazard Class : 8
UN/ID Number : UN2735
Packing Group : III
Marine Pollutant : Yes

Sea Transport: IMDG

Proper Shipping Name : Amines, liquid, corrosive, n.o.s. (Isophoronediamine, Polyamines)
Hazard Class : 8
UN/ID Number : UN2735
Packing Group : III
Marine Pollutant : Yes

Section 15: Regulatory Information

OSHA Hazard Communication Standard

Epoxy is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Superfund Amendments and Reauthorization Act (SARA) of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312 (Hazardous Chemical Storage Reporting Requirements)

Acute Health Hazard

Superfund Amendments and Reauthorization Act (SARA) of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313 (Toxic Chemical Release Inventory)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

None

Pennsylvania Right To Know Components

4-Nonylphenol, branched

CAS # 84852-15-3

New Jersey Right To Know Components

4-Nonylphenol, branched

CAS # 84852-15-3

California Prop. 65 Components (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: Components are DSL Listed, NDSL Listed and/or are exempt from listing

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product has been classified per WHMIS 2015.

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

CHEMICAL SAFETY ASSESSMENT :

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

AUSTRALIAN INFORMATION FOR PRODUCT:

This product does meet the definition of a hazardous substance or preparation as defined by the Safe Work Australia Act. Components of this product are listed on the International Chemical Inventory list

Section 16: Other Information

HMIS Rating (Scale 0-4)

Health hazard: 3

Flammability: 1

Physical Hazard: 0

NFPA Rating (Scale 0-4)

Health hazard: 3

Flammability Hazard: 1

Reactivity Hazard: 0

Caution: HMIS ratings are based on a 0-4 rating scale

0= Minimal Hazard

1= Slight

2= Moderate

3= High

4= Extreme

Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American International Health Alliance
CFR	Code of Federal Regulations
DOT	Federal Department of Transportation
DSL	Domestic Substance List
EC50	Half maximal effective concentration
GHS	The Globally Harmonized System of Classification and Labelling of Chemicals
HMIS	Hazardous Material Identification System
HCS	Hazard Communication Standard
IARC	International Agency for Research on Cancer
IATA	The International Air Transport Association
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LD50/LC50	Lethal Concentration/Dose, 50 percent
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
TLV	ACGIH Threshold Limit Value
TWA	Time-Weighted Average
WEEL	Workplace Environmental Exposure Levels
Skin Corr.	Skin Corrosion
Skin Sens.	Skin Sensitization
Eye Irrit.	Eye Irritation
Acute Tox	Acute Toxicity
Repr	Reproductive Toxicity
STOT SE	Single Target Organ Toxicity - Single Exposure

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Explanation and Disclaimer: Each customer or recipient has to become aware of and understand the data given in this SDS and any hazards associated with the product. The information is provided in good faith and believed to be accurate; however, does not appear all inclusive and shall be used only as a guide. Regulatory requirements are subject to change and may differ between various locations, it is buyer's responsibility to ensure that comply with all state, federal or local laws. The information in this document is based on the present state of our knowledge applicable to the product with regard to safety precautions. The information presented in here relates only to the product as shipped, and it is the buyer's responsibility to determine the conditions necessary for the safe use of this product. If you have received this SDS from any source other than Epoxytec/MCOR or its authorized agent, the information contained in it may have been modified from the original document.

MCOR products are designed for industrial use only.

Revision History:**April 16, 2018**

- Document creation.

END OF SDS