
Section 1: Product and Company Identification

1.1 Product Identifier

Trade Name	Uroflex, A Component
Product Number	WUME38-A
Product Description	Epoxy Formulation
Recommended Use	Protective Coating

1.2 Details of the Supplier of the Safety Data Sheet

Company	EPOXYTEC INTL, INC. 3000 N 29 CT HOLLYWOOD, FLORIDA 33023 Telephone (General): 954-961-4656
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1.3 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)



2.1. Classification of the mixture

Contains Epoxy Resin
Proprietary oligomer

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

2.2. GHS Label elements, including precautionary statements

Pictogram	Signal Word	Hazard Category	Hazard Statement
	Warning	4	Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction
	Warning	2	Toxic to aquatic life with long lasting effects.

Signal word	Code	Warning		
Hazard Statements	H315	Causes skin irritation		
	H317	May cause an allergic skin reaction		
	H319	Causes serious eye irritation		
	H332	Harmful if inhaled		
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled		
	H360 H411	May damage fertility or the unborn child Toxic to aquatic life with long lasting effects.		
Precautionary Statements	P201 P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.		
	P261 P264 P270 P272	Avoid breathing 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.		
	P273 P280 P281 P391	Avoid release to the environment. Wear protective gloves, eye and face protection. Use personal protective equipment as required. Collect spillage		
	Supplementary Precautionary Statements	P314 P302+352 P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Get medical advice/ attention if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see supplemental first aid instructions on this label).	
		P321		
		P333 + P313 P337 + P313 P362 P391	If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Collect spillage	
		Storage/Disposal	P501	Dispose of contents/ container to an approved waste disposal plant.
			P405	Store locked up.
	P404 + P233		Store in a well-ventilated place. Keep container tightly closed.	

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UROFLEX, PART A

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Section 3: Composition/Information on Ingredients

Chemical Characterization: Mixture

Description Mixture: Consisting of the following components

Trade Secret Components: Contains trade secret component. For Trade Secret information refers to 29 CFR 1910.120.

Materials	CAS Number	Percentage, %
4,4'-isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	75-90
Proprietary oligomer	Proprietary*	5-10

*: *Chemical Identity and/or exact percentage (concentration) of composition has been withheld as a trade secret*

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, move person into fresh air. If not breathing, give artificial respiration. Get medical attention.

In case of skin contact,

Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. In case of inflammation (redness, and irritation) obtain medical attention. Show this sheet to the doctor. Do not reuse clothing until cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.

In case of eye contact,

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

If swallowed,

Never give anything by mouth to an unconscious person. Rinse mouth with water. 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 Protection of first aid personnel

In the case of body contact with molten material, immediately cool with running water; do not attempt to remove material from skin. It may be dangerous to the person providing air to give mouth to mouth resuscitation.

4.4. Notes to physician

Person might give an indication of skin, and eye injury because of mixture contains small concentration of isocyanate. Physician Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed.

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UROFLEX, PART A

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Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure.

Section 5: Firefighting Measures

Flammability of the product

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

5.1. Extinguishing media

Fire can be extinguished using: Foam. Alcohol resistant foam. Dry chemicals, sand, dolomite etc..

5.2. Special hazards arising from the substance or mixture

During a fire, thermal decomposition of isocyanate vapors or combustion may liberate carbon oxides and other toxic gases or vapors. Exposure to heated diisocyanate can be extremely dangerous.

5.3. 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.

Section 6: Accidental Release Measures

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

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. Prevent leakage or spillage.

6.3. Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Absorb with liquid-binding material (sand, earth, vermiculate, and universal binders) Wear necessary protective equipment. Wash thoroughly after dealing with a spillage. Vacuum or sweep up material and place in designated labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7: Handling and Storage

For waste disposal, see section 13.

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,

SAFETY DATA SHEET

Epoxytec Intl, Inc.

UROFLEX, PART A

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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.

Recommended storage temperature 35-109 °F (2-43 °C).

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.

Ingredient	CAS #	Agency	Limit type
4,4'-isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6		No occupational exposure limit values.
Proprietary oligomer	-	ACGIH	TWA: 0.005 ppm STEL: 0.02 ppm

8.2. Personal Protective Equipment



8.3. Exposure controls

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. In the recommended room temperature, product does not release airborne side products; however, if a fire or a process occurs resulting heating above 248 °F (120 °C), workers must wear air supplied respirators.

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.

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UROFLEX, PART A

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Body Protection

Avoid all skin contact. Depending on the condition of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact such as gloves, goggles, long sleeved shirts and pants should be worn. Protective clothing should be made of a material that will protect you from the chemicals in the epoxy resin system you use.

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 further leakage or 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

Information on Basic Physical and Chemical Properties of Mixture

Appearance

Form	Viscous, liquid
Color	Tan
Odor	Mild epoxy odor
Solids (% by weight)	100.0
Density	1.19 g/cm ³
Viscosity	12,000 (cPs)
Boiling Point	Not established
Vapor Pressure (mm Hg)	Not established
Vapor Density	Not established

Basic Physical and Chemical Properties of Components

4,4'-isopropylidenediphenol-Epichlorohydrin Copolymer, CAS # 25068-38-6	
Physical State: Viscous, Liquid	Flash Point: 252 °C (486 °F)
Color: Colorless	Vapour pressure: 0.04 hPa (0.03 mmHg) at 77 °C (171 °F)
Boiling Point (760 mmHg): 320 °C (608 °F)	Relative Density: 1.168 g/cm ³
Proprietary Oligomer	
Physical State: Viscous, Liquid	Melting/Freezing point: 3.89 °C (39 °F)
Color: Clear, light yellow	Flash Point: 192 °C (378 °F)
Density: 1.0 g/cm ³ at 20 °C (68 °F)	Bulk Density: 1,042 kg/m ³

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical Stability

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

Thermal Decomposition and Conditions to be avoided

Avoid short term exposures to temperatures above 300 °C (572 °F). Avoid prolonged exposure to temperatures above 250 °C (482 °F). Potentially violent decomposition can occur above 350 °C (662 °F). Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

Incompatible materials

Avoid contact with oxidizing materials. Avoid contact with: acids, bases and oxidizing agents such as fluorine, chlorine. Avoid unintended contact with amines.

Hazardous Decomposition Products

Decomposition products depend upon temperature, air supply and the presence of other materials.

Gases are released during decomposition. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.

Possibility of Hazardous Reactions

Polymerization will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

Section 11: Toxicological Information

Inhalation

Not expected to be a relevant route of exposure, however, under conditions where exposure to vapors or mists is possible, could cause respiratory tract irritation.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact

Signs/symptoms may include abrasion, redness, pain, and blistering, itching and skin sensitization.

Eye Contact

May be severely irritating to the eyes: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

Ingestion

Product may be slightly toxic and harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Toxicological information on ingredients:

Name	Route	Species	Value
4,4'-isopropylidenediphenol-Epichlorohydrin Copolymer	Dermal	Rat	LD50 - > 1,200 mg/kg
4,4'-isopropylidenediphenol-Epichlorohydrin Copolymer	Ingestion	Rat	LD50 - > 30,000 mg/kg
Proprietary oligomer (data is based on a similar product)	Ingestion	Rat	LD50: > 5,000 mg/kg

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Epoxytec Intl, Inc.

UROFLEX, PART A

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Other Toxicological Information

Carcinogenicity Classification

4,4'-isopropylidenediphenol-Epichlorohydrin Copolymer

ACGIH : Not classified

IARC : Not classified

NTP : Not classified

OSHA : Not classified

EU : Not classified

Section 12: Ecological Information

OVERVIEW: No ecological information available on the specific mixture.

Eco toxicological data have not been determined for this product. The information is given below is based on a knowledge of the components and ecotoxicology of similar components.

Mobility in soil: Paste insoluble in water.

12.1. Toxicity

4,4'-isopropylidenediphenol-Epichlorohydrin Copolymer

Acute LC50 1.3 mg//96 h Fish

Other adverse effects: No known significant effects or critical hazards

Proprietary oligomer

Acute and Prolonged Toxicity to Fish

LC50: > 10,000 mg/l (Danio magna (zebra fish), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: > 100 mg/l (Daphnia magna (water flea), 96 h)

Toxicity to Aquatic Plants

ErC50: > 100 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

Toxicity to Microorganisms

EC50: > 10,000 mg/l, (activated sludge)

12.2 Persistence and degradability

4,4'-isopropylidenediphenol-Epichlorohydrin Copolymer: According to the results of tests of biodegradability this product is not readily biodegradable. Remarks: no data available

Proprietary oligomer: Biodegradation, 0%, Exposure time: 28 d, i.e. not readily degradable

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Section 13: Disposal Considerations

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 100 parts Part A with 73 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

DOT (US)

Basic Shipping Requirements:

Proper Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S
Technical Name : 4'-isopropylidenediphenol-Epichlorohydrin Copolymer
Hazard Class : 9
UN/ID Number : 3082
Packing Group : III

IMO/IMDG

Proper Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S
Technical Name : 4'-isopropylidenediphenol-Epichlorohydrin Copolymer
Hazard Class : 9
UN/ID Number : 3082
Packing Group : III

IATA

Proper Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S
Technical Name : 4'-isopropylidenediphenol-Epichlorohydrin Copolymer
Hazard Class : 9
UN/ID Number : 3082
Packing Group : III

CFR/TDG

Not regulated for transport

Section 15: Regulatory Information

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

SARA 302 Components (Emergency Planning)

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

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

SARA 311/312 Hazards (Hazardous Chemical Storage Reporting Requirements)

Acute Health Hazard

Massachusetts Right To Know Components

Proprietary oligomer

Cas # is a trade secret

Pennsylvania Right To Know Components

Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin
(number average molecular weight <= 700)

Cas # 25068-38-6

Proprietary oligomer

Cas # is a trade secret

New Jersey Right To Know Components

Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin
(number average molecular weight <= 700)

Cas # 25068-38-6

Proprietary oligomer

Cas # is a trade secret

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.

(DSL) Canada Domestic Substance List

All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL requirements.

Section 16: Other Information

Contains epoxy constituents and aliphatic acrylates. See information supplied by the manufacturer.

HMIS Rating (Scale 0-4)

Health hazard: 2

Flammability: 1

Reactivity Hazard: 0

NFPA Rating (Scale 0-4)

Health hazard: 2

Flammability Hazard: 1

Reactivity Hazard: 0

Abbreviations and acronyms**ACGIH** *Industrial Hygienists Suggest Exposure Limits***CFR** *Code of Federal Regulations***OT** *Federal Department of Transportation***DSL** *Domestic Substance List***EC50** *Half maximal effective concentration***ErC50** *EC50 in terms of reduction of growth rate***EU** *European Union*

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GHS	<i>The Globally Harmonized System of Classification and Labelling of Chemicals</i>
HMIS	<i>Hazardous Material Identification System</i>
HCS	<i>Hazard Communication Standard</i>
IARC	<i>International Agency for Research on Cancer</i>
IATA	<i>The International Air Transport Association</i>
IMDG	<i>International Maritime Dangerous Goods</i>
IMO	<i>International Maritime Organization</i>
LD50/LC0	<i>Lethal Concentration/Dose, 50 percent</i>
NFPA	<i>National Fire Protection Association</i>
NTP	<i>National Toxicology Program</i>
OSHA	<i>Occupational Safety and Health</i>
SARA	<i>Superfund Amendments and Reauthorization Act</i>
STEL	<i>Short Term Exposure Limit</i>
TDG	<i>The Canadian Transportation of Dangerous Goods</i>
TWA	<i>Time-Weighted Average</i>
WEEL	<i>Workplace Environmental Exposure Levels</i>

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 or its authorized agent, the information contained in it may have been modified from the original document.

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