

## Epoxon Pool Paint Resin (Part A)

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Epoxon Pool Paint Resin (Part A)
<b>Other Means of Identification</b>	N/A
<b>Product Family</b>	Epoxy Resins
<b>Recommended Use</b>	Used over concrete (swimming pools or fountain) which has been acid etched, sand-blasted, or previously painted with an epoxon coating.
<b>Restrictions on Use</b>	This product is designed as part of a system in 2 parts and must be mixed, according to manufacturer's instructions, with the appropriate partner product before use.
<b>Manufacturer/Supplier Identifier</b>	R&D Technical Solutions Ltd., 7000 Davand Drive, Mississauga, ON, L5T 1J5, 905-795-9900, www.rdsolutions.ca
<b>Emergency Phone No.</b>	CANUTEC, 1-613-996-6666, 24 HR

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Flammable liquid - Category 2; Skin irritation - Category 2; Eye irritation - Category 2A; Skin sensitization - Category 1; Germ cell mutagenicity - Category 1B; Carcinogenicity - Category 2; Specific target organ toxicity (repeated exposure) - Category 2; Aquatic hazard (Acute) - Category 2; Aquatic hazard (Chronic) - Category 2

#### Label Elements



Danger

Hazard Statement(s):

H225	Highly flammable liquid and vapour.
H315 + H320	Causes skin and eye irritation.
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice or attention.

H303 + H333 May be harmful if swallowed or if inhaled.

P308 + P313 IF exposed or concerned: Get medical advice or attention.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

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

Note:

73% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)

#### Other Hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	37-40	
Diglycidyl ether of bisphenol A-based epoxy resins, medium to high molecular weight solids	25036-25-3	15-20	
Xylene (mixed isomers)	1330-20-7	9-12	
Calcium carbonate	1317-65-3	5-15	
Methyl isobutyl ketone	108-10-1	5-7	
2-Butoxyethanol	111-76-2	3-5	
Ethylbenzene	100-41-4	1-3	
Silica, quartz	14808-60-7	0-0.2	
Urea, polymer with formaldehyde, butylated	68002-19-7	0-0.2	

#### Notes

Any concentration shown as a range is to protect confidentiality or due to batch variations. Concentrations are expressed in % weight/weight.

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Remove source of exposure or move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor. If exposed or concerned, get medical advice or attention.

#### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation or a rash occurs, get medical advice or attention. Safely dispose of contaminated clothing, shoes and leather goods. DO NOT re-use.

#### Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

#### Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious

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or convulsing. Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

#### **First-aid Comments**

Get medical advice or attention if you feel unwell or are concerned.

#### **Most Important Symptoms and Effects, Acute and Delayed**

Causes moderate to severe irritation. Repeated or prolonged exposure can irritate or burn the skin. Skin sensitizer. May cause an allergic skin reaction in some people. May cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.

#### **Immediate Medical Attention and Special Treatment**

##### **Target Organs**

This product is unlikely to target specific organs. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

##### **Special Instructions**

Not applicable.

##### **Medical Conditions Aggravated by Exposure**

Dermatitis, skin allergies.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. Use water to keep non-leaking, fire-exposed containers cool.

#### **Unsuitable Extinguishing Media**

Do not use direct water stream - may cause fire to spread.

### **Specific Hazards Arising from the Product**

Flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide. During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

### **Special Protective Equipment and Precautions for Fire-fighters**

No special precautions are necessary. Dike and recover contaminated water for appropriate disposal. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Distant ignition and flashback are possible. Non-emergency personnel: evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel.

### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Minimize the use of water to prevent environmental contamination.

### **Methods and Materials for Containment and Cleaning Up**

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

### **Other Information**

Report spills to local health, safety and environmental authorities, as required.

## **SECTION 7. HANDLING AND STORAGE**

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### Precautions for Safe Handling

Obtain special instructions before use. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. When handling concentrated product: do not get in eyes, on skin or on clothing. Avoid release to the environment.

### Conditions for Safe Storage

Store in an area that is: cool, well-ventilated, out of direct sunlight and away from heat and ignition sources.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Xylene (mixed isomers)	100 ppm C A4	150 ppm C A4	100 ppm			
Calcium carbonate			5 mg/m3 (R)	15 mg/m3 (F)		
2-Butoxyethanol	20 ppm		25 ppm			
Methyl isobutyl ketone	20 ppm	75 ppm				

Consult local authorities for provincial or state exposure limits.

### Appropriate Engineering Controls

General ventilation is usually adequate. For large scale use of this product: do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles. Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots. In case of an emergency (e.g. an uncontrolled release): wear a chemical splash suit and respiratory protection.

Butyl rubber, neoprene rubber, nitrile rubber.

#### Respiratory Protection

Not usually required when working with small quantities. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Various colours viscous liquid. Particle Size: Not available
Odour	Aromatic
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	> 117 °C (243 °F) (Methyl isobutyl ketone)
Flash Point	> 16 °C (61 °F) (Methyl isobutyl ketone)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.28 - 1.30

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<b>Solubility</b>	Insoluble in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Molecular Formula</b>	Not available
<b>Molecular Weight</b>	Not available
<b>Bulk Density</b>	~ 1.3 kg/L (81.1 lb/ft <sup>3</sup> )
<b>Surface Tension</b>	Not available
<b>Critical Temperature</b>	Not available
<b>Electrical Conductivity</b>	Not available
<b>Saturated Vapour Concentration</b>	Not available
<b>VOC</b>	18 - 20%

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Polymerizes in the presence of aliphatic amines.

### Conditions to Avoid

Prolonged exposure to high temperatures. Freezing. Open flames, sparks, static discharge, heat and other ignition sources.

### Incompatible Materials

Avoid unintended contact with amines. Avoid contact with: strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), oxidizing agents (e.g. peroxides).

### Hazardous Decomposition Products

Can include, but not limited to: very toxic carbon monoxide, carbon dioxide; very toxic, flammable aldehydes; corrosive phenols.

## SECTION 11. TOXICOLOGICAL INFORMATION

ATE values are calculated based on toxicity values of individual components of this product. No data for the product itself.

### Likely Routes of Exposure

Skin contact; eye contact; inhalation.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	Not available	> 15,000 mg/kg (rat)	23,000 mg/kg (rabbit)
Diglycidyl ether of bisphenol A-based epoxy resins, medium to high molecular	Not available	> 5000 mg/kg (rat)	> 5000 mg/kg (rabbit)

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weight solids			
Xylene (mixed isomers)	6700 ppm (rat) (4-hour exposure)	4300 mg/kg (rat)	Not available
Calcium carbonate		> 5000 mg/kg (rat)	
Urea, polymer with formaldehyde, butylated	> 10 mg/L (rat) (4-hour exposure) (mist)	1420 mg/kg (rat)	> 7000 mg/kg (rabbit)
2-Butoxyethanol	550 ppm (rat) (4-hour exposure)	745 mg/kg (rat)	1250 mg/kg (rat)
Methyl isobutyl ketone	10 mg/L (rat) (4-hour exposure) (vapour)	2080 mg/kg (rat)	> 2000 mg/kg (rat)

Inhalation ATEmix = 46.98 mg/L (4-hour exposure) (vapour)

73.36% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)

Oral ATEmix = 5518.91 mg/kg

Dermal ATEmix = 7109.58 mg/kg

18% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)

### Skin Corrosion/Irritation

There is limited evidence of mild irritation.

### Serious Eye Damage/Irritation

There is limited evidence of serious eye irritation. (2-Butoxyethanol). (Methyl isobutyl ketone) symptoms include sore, red eyes, and tearing. The vapour also irritates the eyes.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May be harmful based on limited evidence. May cause severe nose and throat irritation, depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

#### Skin Absorption

(2-Butoxyethanol) prolonged or widespread skin contact may result in absorption of potentially harmful amounts.

#### Ingestion

If large amounts are swallowed may cause damage to organs.

### Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited. (Xylene (mixed isomers))

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause dermatitis. Symptoms may include dry, red, cracked skin (dermatitis). May cause harmful effects on the kidneys, harmful effects on the liver, effects on the central nervous system, irritation of the respiratory system. May cause respiratory tract injury. At high concentrations may cause harmful effects on the hearing (auditory) system.

### Respiratory and/or Skin Sensitization

No information was located for respiratory sensitization. Can cause an allergic reaction (skin sensitization) based on animal tests. Human experience shows an allergic skin reaction (skin sensitization) in rare cases following exposure at work.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	Group 3	Not Listed	Not Listed	
Xylene (mixed isomers)	Not Listed			

May cause cancer. Silica (silica, quartz) is listed by IARC as a known carcinogen (Category 1) in respirable form. As used in this product the silica is wetted/bound and thus not available in respirable form.

### Reproductive Toxicity

#### Development of Offspring

Conclusions cannot be drawn from the limited studies available.

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### Sexual Function and Fertility

Conclusions cannot be drawn from the limited studies available.

### Effects on or via Lactation

No information was located.

### Germ Cell Mutagenicity

Conclusions cannot be drawn from the limited studies available.

### Interactive Effects

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

This product has not been tested. The toxicity value statements have been derived from the properties of individual components.

### Ecotoxicity

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	2 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; semi-static)	1.8 mg/L (Daphnia magna (water flea); 48-hour; static)	11 mg/L (Selenastrum capricornutum (algae); 72-hour; fresh water; static)	
Calcium carbonate	> 10,000 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	> 1000 mg/L (Daphnia magna (water flea); 48-hour)		> 200 mg/L (Desmodesmus subspicatus (algae); 72-hour)
Urea, polymer with formaldehyde, butylated	Not available	Not available		Not available
2-Butoxyethanol	1474 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; static)	1800 mg/L (Daphnia magna (water flea); 48-hour; static)		911 mg/L (Pseudokirchneriella subcapitata (algae); 72-hour; static)
Methyl isobutyl ketone	> 179 mg/L (96-hour; static)	> 200 mg/L (Daphnia magna (water flea); 48-hour; static)		400 mg/L (Pseudokirchneriella subcapitata (algae); 96-hour; static)

### Persistence and Degradability

Expected not to degrade rapidly based on indirect evidence e.g. knowledge from structurally similar substances.

### Bioaccumulative Potential

This product or its degradation products are expected to bioaccumulate.

### Mobility in Soil

No information was located.

### Other Adverse Effects

There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user. Dispose of contents and container in accordance with local, regional, national and international regulations. This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water.

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## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1866	Resin Solution	3	II
US DOT	UN1866	RESIN SOLUTION	3	II
IATA (Air)	UN1866	Resin Solution	3	II

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations**

**Canada**

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL or are not required to be listed.

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Compliance & Documentation Coordinator

**Phone No.** 905-795-9900

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**Date of Last Revision** July 08, 2016

**Revision Indicators** Not applicable.

**Key to Abbreviations** ACGIH® = American Conference of Governmental Industrial Hygienists  
IARC = International Agency for Research on Cancer  
NIOSH = National Institute for Occupational Safety and Health  
NTP = National Toxicology Program  
OSHA = US Occupational Safety and Health Administration

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).  
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

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