Revision Date 08/23/2013 Revision 2 Supersedes Date 10/05/2013



# SAFETY DATA SHEET EPCON C6+ HARDENER

# **1. IDENTIFICATION**

Product Name	EPCON C6+ HARDENER
Product No.	C4570partB
Identification No.	2735
Identified uses	Two component epoxy based adhesive. Hardener.
Supplier	ITW RED HEAD
	700 High Grove Blvd.,
	Glendale Heights,
	IL 60139
	Tel: 1-800-848-5611
	www.itwredhead.com
Emergency Telephone	Emergency Phone Number: 1-800-424-9300

## 2. HAZARD(S) IDENTIFICATION

Appearance	Liquid
Color	Dark brown. to Black.
Odor	Characteristic.
Contains	
Contains	

# WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

## WHMIS Label





Materials Causing Other Corrosive Material. Toxic Effects.

### Controlled Product Classification

Canadian WHMIS Classification D2A D2B E

### Human Health

Corrosive. Prolonged contact causes serious eye and tissue damage.

### Inhalation

Vapor may irritate respiratory system or lungs.

### Ingestion

May cause stomach pain or vomiting.

### Skin Contact

May cause sensitization by skin contact. May cause serious chemical burns to the skin.

### Eye Contact

Risk of serious damage to eyes. May cause chemical eye burns.

## Health Warnings

May cause sensitization by skin contact. Causes severe burns.

### **Target Organs**

No specific target organs noted

# Medical Symptoms

Skin contact may cause: Chemical burns. Eye contact may cause: Chemical burns.

### Medical Considerations

Splash in eye requires examination by eye specialist.

### Other Health Effects

This substance has no evidence of carcinogenic properties.

## Environment

Contains a substance which causes risk of hazardous effects to the environment.

Revision Date 08/23/2013 Revision 2 Supersedes Date 10/05/2013



# SAFETY DATA SHEET **EPCON C6+ RESIN**

# 1. IDENTIFICATION

Product Name	EPCON C6+ RESIN
Product No.	C4570partA
Identification No.	3082
Identified uses	Two component epoxy based adhesive. Resin.
Supplier	ITW RED HEAD
	700 High Grove Blvd.,
	Glendale Heights,
	IL 60139
	Tel: 1-800-848-5611
	www.itwredhead.com
Emergency Telephone	Emergency Phone Number: 1-800-424-9300

### 2. HAZARD(S) IDENTIFICATION

Liquid
White / off-white.
Characteristic.

# WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

## WHMIS Label



Materials Causing Other Toxic Effects. **Controlled Product Classification** 

# D2A D2B **OSHA Regulatory Status**

This Product is Hazardous under the OSHA Hazard Communication Standard.

## **General Information**

No specific health warnings noted.

## Inhalation

No specific health warnings noted.

### Ingestion

No harmful effects expected in amounts likely to be ingested by accident.

# Skin Contact

Irritating to skin. May cause sensitization by skin contact.

# Eye Contact

May cause severe irritation to eyes.

# **Health Warnings**

Irritating to skin. Irritating to eyes.

# Medical Symptoms

Skin irritation.

# **Medical Considerations**

Skin disorders and allergies.

3. COMPOSITION/INFORMATION ON INGREDIENTS

EPOXY RESIN (Number average MW <=	700 )	50-80%
CAS No.: 25068-38-6	EC No.: 500-033-5	
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin	n Sens. 1 - H317; Aquatic Chronic 2 - H411	
REACTION PRODUCT OF BISPHENOL F	F AND EPICHLORHYDRIN	10-20%
CAS No.: 9003-36-5	EC No.: 500-006-8	
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skir	n Sens. 1 - H317; Aquatic Chronic 2 - H411	
1,6-HEXANEDIOL DIGLYCIDYLETHER		10-20%
CAS No.: 16096-31-4	EC No.: 240-260-4	
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skir	n Sens. 1 - H317; Aquatic Chronic 3 - H412	
TALC		1-5%
CAS No.: 14807-96-6	EC No.: 238-877-9	
GHS Classification Not classified.		
SILICON DIOXIDE, AMORPHOUS		1-5%
CAS No.: 7631-86-9	EC No.: 231-545-4	
GHS Classification Not classified.		
CHLORITE		< 0.5%
CAS No.: 1318-59-8	EC No.: 215-285-9	
GHS Classification Not classified.		
DOLOMITE		< 0.5%
CAS No.: 16389-88-1	EC No.: 240-440-2	
GHS Classification Not classified.		

MAGNESITE	< 0.5%
CAS No.: 13717-00-5	EC No.:
GHS Classification Not classified.	

# 4. FIRST-AID MEASURES

# Description of first aid measures

# Inhalation

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

# Ingestion

DO NOT induce vomiting. Get medical attention immediately.

# Skin Contact

Remove contaminated clothing immediately and wash skin with soap and water.

# Eye Contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

### Most important symptoms and effects, both acute and delayed

### Inhalation

Irritation of nose, throat and airway.

# Ingestion

May cause stomach pain or vomiting.

## Skin Contact

Prolonged skin contact may cause redness and irritation. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

## Eye Contact

Irritating and may cause redness and pain.

## Indication of any immediate medical attention and special treatment needed

## Notes To The Physician

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

## 5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)		
Not determined.		
Flammability Limit - Lower(%)		
Not determined.		
Flammability Limit - Upper(%)		
Not determined.		
Flash point (°C)	>=100°C CC (Closed cup).	
	Literature	
Extinguishing Media		
Extinguish with alcohol-resistant foa	m, carbon dioxide or dry powder.	
Unsuitable extinguishing media		
DO NOT use water if avoidable.		
Hazardous combustion products		
In case of fire, toxic gases (CO, CO	02, NOx) may be formed.	
Unusual Fire & Explosion Hazards		
No unusual fire or explosion hazards	s noted.	
Specific Hazards		
In case of fire, toxic gases (CO, CO	02, NOx) may be formed.	
Special Fire Fighting Procedures		
No specific fire fighting procedure gi	ven.	
Protective Equipment For Fire-Fighters		
Self contained breathing apparatus	and full protective clothing must be worn in case of fire.	

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions**

Wear protective clothing as described in Section 8 of this material safety data sheet.

## Environmental Precautions

Collect and dispose of spillage as indicated in section 13. Contain spillages with sand, earth or any suitable adsorbent material. Avoid discharge into water courses or onto the ground.

## Spill Clean Up Methods

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. For waste disposal, see section 13.

### Reference to other sections

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

# 7. HANDLING AND STORAGE

### Handling

Avoid contact with skin and eyes.

### Storage

Keep in original container.

### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA	(8-hrs)	STEL	(15 min)	Notes
TALC	ACGIH		2 mg/m3			A1, A4
COMPONENT						LH
TALC					3	000 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.

A1: Confirmed Human Carcinogen.

A4: Not Classifiable as a Human Carcinogen.

### **Protective Equipment**



### **Process Conditions**

Provide eyewash station.

### Engineering Measures

No particular ventilation requirements.

Respiratory Equipment

Not relevant

Hand Protection

Wear protective gloves.

Eye Protection

Use approved safety goggles or face shield.

### Hygiene Measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

### **Environmental Exposure Controls**

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid	
Color	White / off-white.	
Odor	Characteristic.	
Solubility	Insoluble in water	
Initial boiling point and boiling range	>35 760 mm Hg	

Not applicable.Relative density (air=1)1.2Vapor density (air=1)No information available.Vapor pressureRo information available.pH-Value, Conc. SolutionNot applicable.ViscosityNot determined.Solubility Value (G/100G H2O@20°C)Not determined.Odour Threshold, LowerNot determined.PathonPathonNot determined.PathonNot determined.PathonNot determined.Flash pointPathon CoefficientFlammability Limit - Lower(%)Not determined.Flammability Limit - Upper(%)Not determined.	Melting point (°C)	
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Explosive properties No information available.		
No information available.		
volaule organic compound (voc) 0.0 g/illie		0.0 allitro

# **10. STABILITY AND REACTIVITY**

### Reactivity

No specific reactivity hazards associated with this product.

Stability

Stable under normal temperature conditions and recommended use.

Not determined.

Hazardous Polymerisation

# Not relevant

**Conditions To Avoid** Avoid contact with acids and alkalis.

## Materials To Avoid

Strong acids. Amines. Amides.

Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. TOXICOLOGICAL INFORMATION

## Toxicological Information on Ingredients:

EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)

Acute toxicity: Acute Toxicity (Oral LD50) 11400 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 1200 mg/kg Rat

# EPCON C6+ RESIN REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN (CAS: 9003-36-5)

## Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

### 1,6-HEXANEDIOL DIGLYCIDYLETHER (CAS: 16096-31-4)

## Acute toxicity:

Acute Toxicity (Oral LD50)

3010 mg/kg Rat

## **12. ECOLOGICAL INFORMATION**

## Degradability

The product is not biodegradable.

# Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

Mobility:

The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile.

## Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

# EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)

Acute Toxicity - Fish LC50 96 hours 2 mg/l Onchorhynchus mykiss (Rainbow trout) **Bioaccumulative potential** May accumulate in soil and water systems. **Bioaccumulation factor** BCF 100 - 3000 Partition coefficient log Pow 3.242 Estimated Value Mobility: Semi-mobile. Adsorption/Desorption Coefficient Soil Koc 1800 - 4400 Estimated Value Henry's Law Constant 4.93E-05 Pa m3/mol 25°C Results of PBT and vPvB assessment Not Classified as PBT/vPvB by current EU criteria. Acute Toxicity - Aquatic Invertebrates EC50 48 hours 1.8 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 72 hours 11 mg/l Freshwater algae EC50 96 hours 220 mg/l Scenedesmus subspicatus **Chronic Toxicity - Aquatic Invertebrates** NOEC 21 days 0.3 mg/l Daphnia magna Biodegradation Degradation (12%%) 28 days REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN (CAS: 9003-36-5) Acute Toxicity - Fish LC50 96 hours > 1000 mg/l Onchorhynchus mykiss (Rainbow trout) **Bioaccumulation factor** BCF 100 - 3000 Estimated Value Results of PBT and vPvB assessment Not Classified as PBT/vPvB by current EU criteria. Acute Toxicity - Aquatic Invertebrates EC50 24 hours 1.9 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 72 hours > 1.8 mg/l Selenastrum capricornutum 1,6-HEXANEDIOL DIGLYCIDYLETHER (CAS: 16096-31-4) Acute Toxicity - Fish LC50 96 hours 30 mg/l Onchorhynchus mykiss (Rainbow trout) **Bioaccumulation factor** BCF < 100 Estimated Value Partition coefficient log Pow -0.272 Estimated Value Biodegradation Degradation (47%%) 28 days OECD 301D

13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Contact specialist disposal companies.

14. TRANSPORT INFOR	MATION
UN No. (DOT/TDG)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
DOT Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.
TDG Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.
DOT Hazard Class 9 DOT Hazard Label Class 9	
TDG Class	9
TDG Label(s)	9
IMDG Class	9
ICAO Class	9
Transport Labels	
	MISCELLANEOUS DANGEROUS GOODS 9

DOT Pack Group	III
IMDG Pack Group	III
Air Pack Group	III

Environmentally Hazardous Substance/Marine Pollutant



EMS

F-A, S-F

# **15. REGULATORY INFORMATION**

## **US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

**OSHA Highly Hazardous Chemicals** 

None of the ingredients are listed.

## US State Regulations

### California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed. SILICON DIOXIDE, AMORPHOUS; Known to the State of California to cause cancer. **California Air Toxics "Hot Spots" (A-I)** The following ingredients are listed. SILICON DIOXIDE, AMORPHOUS **California Air Toxics "Hot Spots" (A-II)** None of the ingredients are listed.

### Massachusetts "Right To Know" List

The following ingredients are listed. SILICON DIOXIDE, AMORPHOUS TALC

### Rhode Island "Right To Know" List

The following ingredients are listed. TALC

# Minnesota "Right To Know" List

The following ingredients are listed. SILICON DIOXIDE, AMORPHOUS TALC

### New Jersey "Right To Know" List

The following ingredients are listed. TALC

## Pennsylvania "Right To Know" List

The following ingredients are listed. MAGNESITE SILICON DIOXIDE, AMORPHOUS TALC

## International Inventories

## **EU - EINECS/ELINCS**

The following ingredients are listed. 1, 6-HEXANEDIOL DIGLYCIDYLETHER CHLORITE DOLOMITE SILICON DIOXIDE, AMORPHOUS TAI C

# Canada - DSL/NDSL

The following ingredients are listed. 1, 6-HEXANEDIOL DIGLYCIDYLETHER EPOXY RESIN (Number average MW <= 700) REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN SILICON DIOXIDE, AMORPHOUS TALC US - TSCA The following ingredients are listed.

1, 6-HEXANEDIOL DIGLYCIDYLETHER DOLOMITE EPOXY RESIN (Number average MW <= 700) REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN SILICON DIOXIDE, AMORPHOUS TALC

# US – TSCA 12(b) Export Notification

The following ingredients are listed. 1, 6-HEXANEDIOL DIGLYCIDYLETHER

## Australia - AICS

The following ingredients are listed. 1, 6-HEXANEDIOL DIGLYCIDYLETHER DOLOMITE EPOXY RESIN (Number average MW <= 700 ) REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN SILICON DIOXIDE, AMORPHOUS TALC

# Japan - MITI

The following ingredients are listed. 1, 6-HEXANEDIOL DIGLYCIDYLETHER EPOXY RESIN (Number average MW <= 700) SILICON DIOXIDE, AMORPHOUS

## Korea - KECI

The following ingredients are listed. 1, 6-HEXANEDIOL DIGLYCIDYLETHER CHLORITE

DOLOMITE EPOXY RESIN (Number average MW <= 700 ) REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN SILICON DIOXIDE, AMORPHOUS TALC

China - IECSC All ingredients are listed or exempt.

## Phillippines – PICCS

All ingredients are listed or exempt.

## **16. OTHER INFORMATION**

### **Revision Comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	08/23/2013
Revision	2
Supersedes Date	10/05/2013

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

QUARTZ SAND		50-80%
CAS No.: 14808-60-7	EC No.: 238-878-4	
GHS Classification		
Not classified.		
STYRENATED PHENOL		10-20%
CAS No.: 61788-44-1	EC No.: 262-975-0	
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319		
2-PIPERAZIN-1-YLETHYLAMINE		5-10%
CAS No.: 140-31-8	EC No.: 205-411-0	
GHS Classification Acute Tox. 4 - H302; Acute Tox. 4 - H312	; Skin Corr. 1B - H314; Skin Sens. 1 - H317; Aquatic Chronic 3 - H412	
1,3-CYCLOHEXANEBIS(METHYLAMINE		5-10%
CAS No.: 2579-20-6	EC No.: 219-941-5	
GHS Classification		
Acute Tox. 4 - H302; Acute Tox. 4 - H312	; Skin Corr. 1A - H314; Aquatic Chronic 3 - H412	
SALICYLIC ACID		1-5%
CAS No.: 69-72-7	EC No.: 200-712-3	
GHS Classification		
Acute Tox. 4 - H302; Eye Dam. 1 - H318		
SEPIOLITE CLAY		1-5%
CAR No. ( 62000 27.0	EC No : 264 465 2	
CAS No.: 63800-37-3	EC No.: 264-465-3	
GHS Classification		
Not classified.		
4. FIRST-AID MEASURES		

# Description of first aid measures

### Inhalation

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

# Ingestion

DO NOT induce vomiting. Get medical attention immediately.

# Skin Contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

# Eye Contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

## Most important symptoms and effects, both acute and delayed

### Inhalation

Irritation of nose, throat and airway.

## Ingestion

May cause stomach pain or vomiting.

### Skin Contact

Burning pain and severe corrosive skin damage. Blistering may occur. Chemical burns.

## Eye Contact

May cause blurred vision and serious eye damage.

## Indication of any immediate medical attention and special treatment needed

### Notes To The Physician

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

### 5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)	
Not determined.	
Flammability Limit - Lower(%)	
Not determined.	
Flammability Limit - Upper(%)	
Not determined.	
Flash point (°C)	>=100°C CC (Closed cup).
	Literature

### **Extinguishing Media**

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

# Unsuitable extinguishing media

DO NOT use water if avoidable.

### Hazardous combustion products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

## **Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

### Specific Hazards

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

## **Special Fire Fighting Procedures**

No specific fire fighting procedure given.

### **Protective Equipment For Fire-Fighters**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

# 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions**

Wear protective clothing as described in Section 8 of this material safety data sheet.

### **Environmental Precautions**

Collect and dispose of spillage as indicated in section 13. Contain spillages with sand, earth or any suitable adsorbent material. Avoid discharge into water courses or onto the ground.

### Spill Clean Up Methods

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. For waste disposal, see section 13.

### Reference to other sections

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

## 7. HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Storage Keep in original container.

## Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA	(8-hrs)	STEL	(15 min)	Notes
QUARTZ SAND	ACGIH		0.025 mg/m3			A2
COMPONENT						IDLH
QUARTZ SAND						25 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists. A2: Suspected Human Carcinogen.

### **Protective Equipment**



### **Process Conditions**

Use engineering controls to reduce air contamination to permissible exposure level.

### **Engineering Measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

# Respiratory Equipment

Wear suitable respiratory protection.

### Hand Protection

Wear protective gloves.

### Eye Protection

Wear approved safety goggles.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Dark brown. to Black.
Odor	Characteristic.
Solubility	Not determined.
Initial boiling point and boiling range	
Not determined.	
Melting point (°C)	
Not determined.	
Relative density	1.8
Vapor density (air=1)	
Not determined.	
Vapor pressure	
Not determined.	
Evaporation rate	
Not determined.	
pH-Value, Conc. Solution	
Not applicable.	
Viscosity	>60s ISO2431
Solubility Value (G/100G H2O@20°C	;)
Not applicable.	
Decomposition temperature (°C)	
Not determined.	
Odour Threshold, Lower	
Not determined.	
Odour Threshold, Upper	
Not determined.	
Flash point	>=100°C CC (Closed cup).
	Literature

Auto Ignition Temperature (°C) Not determined. Flammability Limit - Lower(%) Not determined. Flammability Limit - Upper(%) Not determined. Partition Coefficient (N-Octanol/Water) Not determined. Explosive properties No information available. Volatile Organic Compound (VOC) 354 g/litre 10. STABILITY AND REACTIVITY

### Reactivity

Acids. Alkalis. **Stability** Stable under normal temperature conditions and recommended use. **Conditions To Avoid** Avoid contact with acids and alkalis. **Materials To Avoid** Epoxides. **Hazardous Decomposition Products** 

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

# **11. TOXICOLOGICAL INFORMATION**

### Other Health Effects

This substance has no evidence of carcinogenic properties.

### Toxicological Information on Ingredients:

2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)

Acute toxicity: Acute Toxicity (Oral LD50) > 1470 mg/kg Rat

Acute Toxicity (Dermal LD50) 866 mg/kg Rabbit

STYRENATED PHENOL (CAS: 61788-44-1)

Acute toxicity: Acute Toxicity (Oral LD50) > 2000 mg/kg Rat

## Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

SALICYLIC ACID (CAS: 69-72-7)

Acute toxicity: Acute Toxicity (Oral LD50) 891 mg/kg Rat

### Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

# EPCON C6+ HARDENER 1.3-CYCLOHEXANEBIS(METHYLAMINE) (CAS: 2579-20-6)

Acute toxicity:

Acute Toxicity (Oral LD50)

700 mg/kg Rat

Acute Toxicity (Dermal LD50)

1700 mg/kg Rabbit

# **12. ECOLOGICAL INFORMATION**

### Degradability

There are no data on the degradability of this product. **Bioaccumulative potential** No data available on bioaccumulation. **Partition coefficient** Not determined. **Mobility:** Mobile. The product is partly soluble in water. May spread in the aquatic environment. **Results of PBT and vPvB assessment** This product does not contain any PBT or vPvB Substances.

## Ecological Information on Ingredients:

### 2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)

Acute Toxicity - Fish LC50 96 hours 2190 mg/l Pimephales promelas (Fat-head Minnow) LC50 96 hours 368 mg/l Poecilia reticulata (Guppy) Acute Toxicity - Aquatic Invertebrates EC50 48 hours 32 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 48 hours 494 mg/l Selenastrum capricornutum

STYRENATED PHENOL (CAS: 61788-44-1)

Acute Toxicity - Fish

LC50 96 hours 14.8 mg/l Acute Toxicity - Aquatic Invertebrates EC50 48 hours 1-10 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 72 hours 3.14 mg/l Scenedesmus subspicatus

SALICYLIC ACID (CAS: 69-72-7)

### Acute Toxicity - Fish

LC50 48 hours 90 mg/l Leuciscus idus (Golden orfe) Acute Toxicity - Microorganisms EC50 3 hours > 3200 mg/l Activated Sludge

1,3-CYCLOHEXANEBIS(METHYLAMINE) (CAS: 2579-20-6)

# Acute Toxicity - Fish LC50 96 hours > 100 mg/l Leuciscus idus (Golden orfe) Acute Toxicity - Aquatic Invertebrates EC50 48 hours 29 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 96 hours > 100 mg/l Scenedesmus subspicatus Acute Toxicity - Terrestrial EC50 14 days > 1000 mg/kg Eisenia Fetida (Earthworm)

## 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Contact specialist disposal companies.

# **14. TRANSPORT INFORMATION**

UN No. (DOT/TDG)	2735
UN No. (IMDG)	2735

	EPCON C6+ HARDENER
UN No. (ICAO)	2735
DOT Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S., OR POLYAMINES, LIQUID, CORROSIVE, N.O.S.
TDG Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S., OR POLYAMINES, LIQUID, CORROSIVE, N.O.S.
DOT Hazard Class	
8	
DOT Hazard Label	
Corrosive	
TDG Class	8
TDG Label(s)	8
IMDG Class	8
ICAO Class	8
Transport Labels	
	CORROSIVE 8
DOT Pack Group	III
IMDG Pack Group	111
Air Pack Group	III
EMS	F-A, S-B
15. REGULATORY INFOR	MATION

# US Federal Regulations

### SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

## US State Regulations

# California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed. California Air Toxics "Hot Spots" (A-I) None of the ingredients are listed. California Air Toxics "Hot Spots" (A-II) None of the ingredients are listed. Massachusetts "Right To Know" List The following ingredients are listed. 2-PIPERAZIN-1-YLETHYLAMINE QUARTZ SAND Rhode Island "Right To Know" List The following ingredients are listed. QUARTZ SAND Minnesota "Right To Know" List The following ingredients are listed.

QUARTZ SAND

# **EPCON C6+ HARDENER**

## New Jersey "Right To Know" List

The following ingredients are listed. 2-PIPERAZIN-1-YLETHYLAMINE QUARTZ SAND

Pennsylvania "Right To Know" List

The following ingredients are listed. 2-PIPERAZIN-1-YLETHYLAMINE QUARTZ SAND

### International Inventories

### EU - EINECS/ELINCS

All ingredients are listed or exempt.

Canada – DSL/NDSL All ingredients are listed or exempt.

US - TSCA All ingredients are listed or exempt.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

## Australia - AICS

The following ingredients are listed. 2-PIPERAZIN-1-YLETHYLAMINE QUARTZ SAND SALICYLIC ACID SEPIOLITE CLAY STYRENATED PHENOL

### Japan – MITI

The following ingredients are listed. 1, 3-CYCLOHEXANEBIS(METHYLAMINE) 2-PIPERAZIN-1-YLETHYLAMINE SALICYLIC ACID STYRENATED PHENOL Korea - KECI All ingredients are listed or exempt. China - IECSC All ingredients are listed or exempt.

# Phillippines – PICCS

All ingredients are listed or exempt.

## **16. OTHER INFORMATION**

### Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	08/23/2013
Revision	2
Supersedes Date	10/05/2013

## Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.