



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

Appearance	Liquid
Color	White / off-white.
Odor	Characteristic.
Contains	

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

EPCON C6+ RESIN

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 Sens. 1 - H317; Aquatic Chronic 2 - H411		
REACTION PRODUCT OF BISPHENOL 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; Skin 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; Skin 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.		

EPCON C6+ RESIN

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						IDLH
TALC						3000 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

EPCON C6+ RESIN

Melting point (°C)	
Not applicable.	
Relative density	1.2
Vapor density (air=1)	
No information available.	
Vapor pressure	<500 Pa 50°C
Evaporation rate	
No information available.	
pH-Value, Conc. Solution	
Not applicable.	
Viscosity	
Not determined.	
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)	0.0 g/litre

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.

EPCON C6+ RESIN

Ecological Information on Ingredients:

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

EPCON C6+ RESIN

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)	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	



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.

EPCON C6+ RESIN

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
TALC

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

EPCON C6+ RESIN

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.