



SAFETY DATA SHEET EPCON C6+ part B

1. Identification

Product identifier

Product name EPCON C6+ part B

Product number EPCON C6+ part B

Recommended use of the chemical and restrictions on use

Application Two component epoxy based adhesive. Hardener.

Details of the supplier of the safety data sheet

Supplier ITW Commercial Construction
700 High Grove Blvd
Glendale Heights
IL 60139
USA
Tel: 1-800-848-5611

Web www.itwredhead.com

Emergency telephone number

Emergency telephone 1 800 CHEMTREC

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3 - H412

Human health Corrosive. Prolonged contact causes serious eye and tissue damage.

Environmental The product contains a substance which may have hazardous effects on the environment.

Label elements

Pictogram



Signal word Danger

Hazard statements
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P261 Avoid breathing vapor/spray.</p> <p>P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
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Contains	<p>STYRENATED PHENOL, 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE), SALICYLIC ACID</p>
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3. Composition/information on ingredients

Mixtures

QUARTZ SAND	20-50%
CAS number: 14808-60-7	
Classification Not Classified	
CRYSTALLINE SILICA	20-50%
CAS number: 14808-60-7	
Classification STOT RE 2 - H373	
STYRENATED PHENOL	10-20%
CAS number: 61788-44-1 REACH registration number: 01-2119979575-18-XXXX	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1A - H317 Aquatic Chronic 2 - H411	
2-PIPERAZIN-1-YLETHYLAMINE	5-10%
CAS number: 140-31-8 REACH registration number: 01-2119471486-30-XXXX	
Classification Acute Tox. 4 - H302 Acute Tox. 3 - H311 Eye Dam. 1 - H318 Skin Sens. 1B - H317 Aquatic Chronic 3 - H412	

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1,3-CYCLOHEXANEBIS(METHYLAMINE)	5-10%
CAS number: 2579-20-6	REACH registration number: 01-2119543741-41-XXXX
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1A - H314 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	
SALICYLIC ACID	1-5%
CAS number: 69-72-7	REACH registration number: 01-2119486984-17-XXXX
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	
BIS(ISOPROPYL)NAPHTHALENE	>0.5 <1.0%
CAS number: 38640-62-9	REACH registration number: 01-2119565150-48-XXXX
M factor (Chronic) = 1	
Classification Asp. Tox. 1 - H304 Aquatic Chronic 1 - H410	

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation	Remove affected person from source of contamination. 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	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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 immediate medical attention and special treatment needed

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Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5. Fire-fighting measures

Extinguishing media

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

Unsuitable extinguishing media DO NOT use water if avoidable.

Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion products Oxides of carbon. Oxides of nitrogen.

Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Environmental precautions Collect and dispose of spillage as indicated in Section 13. Contain spillage with sand, earth or other suitable non-combustible material. Avoid discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. 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

Precautions for safe handling

Usage precautions Avoid contact with skin. Avoid contact with eyes. Do not empty into drains.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from food and drink. Keep container closed when not in use.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

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Occupational exposure limits

QUARTZ SAND

Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m³
A2

CRYSTALLINE SILICA

Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m³
A2

ACGIH = American Conference of Governmental Industrial Hygienists.

A2 = Suspected Human Carcinogen.

Ingredient comments See Section 16 regarding release of particulates / dusts

STYRENATED PHENOL (CAS: 61788-44-1)

DNEL	REACH dossier information Industry - Inhalation; Long term systemic effects: 0.734649123 mg/m ³ Industry - Dermal; Long term systemic effects: 0.416666667 mg/kg/day
PNEC	REACH dossier information - Fresh water; 0.001371 mg/l - Marine water; 0.0001371 mg/l - Intermittent release; 0.01371 mg/l - STP; 1.0638 mg/l - Sediment (Freshwater); 43.65269484 mg/kg - Sediment (Marinewater); 43.65269484 mg/kg - Soil; 20.64517608 mg/kg

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

DNEL	REACH dossier information Industry - Inhalation; Long term systemic effects: 3.6 mg/m ³ Industry - Dermal; Short term systemic effects: 20 mg/kg/day Industry - Dermal; Long term systemic effects: 3.3 mg/kg/day Industry - Dermal; Long term local effects: 0.006 mg/kg/day Industry - Dermal; Short term local effects: 0.04 mg/kg/day Industry - Inhalation; Short term systemic effects: 21.4 mg/m ³
PNEC	REACH dossier information - STP; 250 mg/l - Intermittent release; 0.58 mg/l - Sediment (Freshwater); 215 mg/kg - Fresh water; 0.058 mg/l - Soil; 42.9 mg/kg - Marine water; 0.0058 mg/l - Sediment (Marinewater); 21.5 mg/kg

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

DNEL	REACH dossier information Industry - Inhalation; Long term systemic effects: 0.71 mg/m ³ Industry - Inhalation; Short term systemic effects: 21.2 mg/m ³ Industry - Dermal; Long term systemic effects: 0.2 mg/kg/day Industry - Dermal; Short term systemic effects: 6 mg/kg/day
PNEC	REACH dossier information - Fresh water; 0.0331 mg/l - Marine water; 0.00331 mg/l - Intermittent release; 0.331 mg/l - STP; 10 mg/l

SALICYLIC ACID (CAS: 69-72-7)

DNEL	REACH dossier information Industry - Inhalation; Long term systemic effects: 16 mg/m ³ Industry - Dermal; Long term systemic effects: 2 mg/kg/day
PNEC	REACH dossier information - Fresh water; 0.2 mg/l - Marine water; 0.02 mg/l - Intermittent release; 1 mg/l - STP; 162 mg/l - Sediment (Freshwater); 1.42 mg/kg - Sediment (Marinewater); 0.142 mg/kg - Soil; 0.166 mg/kg

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BIS(ISOPROPYL)NAPHTHALENE (CAS: 38640-62-9)

DNEL	Workers - Inhalation; Long term systemic effects: 30 mg/m ³ Workers - Dermal; Long term systemic effects: 4.3 mg/kg/day REACH dossier information
DMEL	Workers - Inhalation; Long term systemic effects: 300 mg/m ³ REACH dossier information
PNEC	- Fresh water; 0.26 µg/L - Marine water; 0.026 µg/L - STP; 0.15 mg/l - Sediment (Freshwater); 0.94 mg/kg - Sediment (Marinewater); 0.094 mg/l

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Tight-fitting safety glasses. Contact lenses should not be worn when working with this chemical.

Hand protection

Wear protective gloves made of the following material: Nitrile rubber.

Other skin and body protection

Avoid contact with skin. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Use engineering controls to reduce air contamination to permissible exposure level.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

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

Information on basic physical and chemical properties

Appearance	Liquid
Color	Brownish.
Odor	Characteristic. Amine.
Odor threshold	Not determined.
pH	Not applicable.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	>100°C CC (Closed cup). Literature
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.

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Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.75 - 1.85
Bulk density	Not available.
Solubility(ies)	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	> 60 S ISO2431
Explosive properties	No information available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidizing.

10. Stability and reactivity

Reactivity	The following materials may react with the product: Acids. Epoxides. Oxidizing agents. Peroxides.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	The following materials may react with the product: Acids. Epoxides. Oxidizing agents. Peroxides.
Conditions to avoid	Stable. However, may decompose if heated.
Materials to avoid	Acids. Epoxides. Oxidizing agents. Peroxides.
Hazardous decomposition products	Oxides of carbon. Oxides of nitrogen.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 2,998.43483333

Acute toxicity - dermal

ATE dermal (mg/kg) 3,249.05028208

Skin sensitisation

Skin sensitisation Sensitizing.

Inhalation Vapor may irritate respiratory system/lungs.

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Ingestion	May cause stomach pain or vomiting.
Skin Contact	May cause sensitisation by skin contact. May cause serious chemical burns to the skin.
Eye contact	Risk of serious damage to eyes. May cause chemical eye burns.
Acute and chronic health hazards	May cause sensitisation by skin contact. Causes severe burns.
Route of entry	Skin and/or eye contact Inhalation
Target Organs	No specific target organs known.
Medical Symptoms	Symptoms following overexposure may include the following: Chemical burns.
Medical considerations	Splash in eye requires examination by eye specialist.

12. Ecological Information

Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not determined.

Mobility in soil

Mobility Mobile. The product is miscible with water and may spread in water systems.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

13. Disposal considerations

Waste treatment methods

General information Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

Disposal methods Dispose of waste via a licensed waste disposal contractor.

14. Transport information

UN Number

UN No. (DOT) 2735

UN No. (IMDG) 2735

UN No. (ICAO) 2735

UN proper shipping name

Proper shipping name (DOT) AMINES, LIQUID, CORROSIVE, N.O.S.

Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S.

Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S.

Transport hazard class(es)

DOT hazard class 8

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DOT hazard label	Corrosive
TDG class	8
TDG label	8
IMDG Class	8
IMDG subsidiary risk	
ICAO class/division	8
ICAO subsidiary risk	

Transport labels



Packing group

DOT pack group	III
IMDG packing group	III
ICAO packing group	III

Special precautions for user

EmS	F-A, S-B
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15. Regulatory information

International Regulations

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

The following ingredients are not listed or exempt:

SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Not listed.

5-10%

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

The following ingredients are not listed or exempt:

SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Not listed.

5-10%

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

The following ingredients are listed or exempt:

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SALICYLIC ACID

No.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

No.

5-10%

CAA Accidental Release Prevention

The following ingredients are not listed or exempt:

SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Not listed.

5-10%

FDA - Essential Chemical

None of the ingredients are listed or exempt.

FDA - Precursor Chemical

None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

US State Regulations

State Regulations Comments Some of the ingredients are listed or exempt.

California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are not listed or exempt:

SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Not listed.

5-10%

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

QUARTZ SAND

Present

20-50%

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CRYSTALLINE SILICA

Present

20-50%

SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Present

5-10%

Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

QUARTZ SAND

Present

20-50%

CRYSTALLINE SILICA

Present

20-50%

SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Not listed.

5-10%

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

QUARTZ SAND

Present

20-50%

CRYSTALLINE SILICA

Present

20-50%

SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Not listed.

5-10%

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

QUARTZ SAND

Present

20-50%

CRYSTALLINE SILICA

Present

20-50%

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SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Present

5-10%

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

QUARTZ SAND

Present

20-50%

CRYSTALLINE SILICA

Present

20-50%

SALICYLIC ACID

Not listed.

1-5%

2-PIPERAZIN-1-YLETHYLAMINE

Present

5-10%

Inventories

Canada - DSL/NDSL

The following ingredients are listed or exempt:

TRIIRON TETRAOXIDE

Domestic Substance List

<0.5%

SALICYLIC ACID

Domestic Substance List

1-5%

1,3-CYCLOHEXANEBIS(METHYLAMINE)

Domestic Substance List

5-10%

2-PIPERAZIN-1-YLETHYLAMINE

Domestic Substance List

5-10%

STYRENATED PHENOL

Domestic Substance List

10-20%

BIS(ISOPROPYL)NAPHTHALENE

DSL

>0.5 <1.0%

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

EPCON C6+ part B**16. Other information**

General information	Airborne Silicon Dioxide particulates are not present in normal use only arising when the product is reacted with the second component, cured and subsequently dry worked (Drilled, sanded etc.)
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	5/19/2014
Revision	1
SDS No.	20580
Hazard statements in full	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure if inhaled. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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.