

1. IDENTIFICATION OF PREPARATION & OF COMPANY

Product:	Pigment Solution (Epoxy)
Manufacturer:	Chemco International Ltd East Shawhead Industrial Estate Coatbridge ML5 4XD Scotland United Kingdom
Telephone:	+44 (0) 1236 606060
Emergency Telephone No:	+44 (0) 7973 553361
Email:	sales@chemcoint.com
Web Site:	www.chemcoint.com

2. HAZARDS IDENTIFICATION

Acute effects:	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin.
Hazard class:	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE. 3 STOT RE. 2

Hazard pictograms:



Signal word:	Warning.
Hazard statements: According to Regulation (EC) 1272/2008 (CLP)	H226, Flammable liquid and vapour. H304, May be fatal if swallowed and enters airways. H312, Harmful in contact with skin. H315, Causes skin irritation. H319, Causes serious eye irritation. H332, Harmful if inhaled. H335, may cause respiratory irritation. H373, May cause damage to organs through prolonged or repeated exposure.
Precautionary statements:	H412, Harmful to aquatic life with long lasting effects. P210, Keep away from heat/sparks/open flames/hot surfaces – No smoking. P241, Use explosion-proof electrical/ventilating/light/equipment. P260, Do not breathe dust/fume/gas/mist/vapours/spray. P303 + P361 + P353, IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P405, Store locked up. P501, Dispose of contents/container to in accordance with local/ regional/national/international regulations.

3. COMPOSITION INFORMATION ON INGREDIENTS

CAS No. EC No.	Chemical Name	Weight	67/548/EEC Classification	1278/2008 Classification
1330-20-7 215-535-7	Xylene	70 - 80	Xn; R20/21, R65 Xi; R10, R38	Flam. Liq. 3; H226 STOT RE. 2; H373 Asp. Tox. 1; H304 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE. 3; H335 Aquatic Chronic 3; H412
71-36-3 200-751-6	n-Butanol	10 - 20	Xn; R22 Xi; R10, R37/38, R41, R67	Flam. Liq. 3; H226 Eye Dam. 1; H318 Acute Tox. 4; H302 Skin Irrit. 2; H315 STOT SE. 3; H335

For full text of H-statements, R-phrases and Symbols, see Section 16.

Amounts specified are typical and do not represent a specification. Remaining components are proprietary non-hazardous, and/or present at amounts below reportable limits.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air if effects occur. Seek medical attention.
Ingestion:	Immediately give plenty of water (if possible charcoal slurry). Seek medical attention immediately. Do not induce vomiting. Fully trained personnel can use oxygen or artificial respiration if required.
Eyes:	Rinse with flowing water immediately for at least 15 minutes. Seek medical attention.
Skin:	Remove contaminated clothing. Flush with flowing water for at least 15 minutes. Wash affected area with soap and water. Seek medical attention if irritation persists.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Use carbon dioxide, dry chemicals, sand or dolomite. Do not use water jet.
Special fire-fighting procedures:	Move container from fire area if it can be done without risk. Avoid water in straight hose stream. Will cause fire to scatter and spread. Use water spray only to cool containers. Do not put water on leaked material.
Unusual fire and explosion hazards:	May explode in a fire. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers. Vapours are heavier than air and may spread near ground to sources of ignition.
Hazardous decomposition products:	Toxic gases/vapours/fumes of carbon monoxide, carbon dioxide.

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6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up:

Clean up personnel must wear respiratory and/or liquid contact protection. Extinguish all ignition sources. Avoid sparks, flame, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Run off or release to sewer, waterway or ground is forbidden.

7. HANDLING & STORAGE

Handling:

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

Storage:

Flammable, combustible - keep away from oxidisers, heat and flames. May attack some plastics, rubber and coatings. Keep in cool, dry, ventilated storage and closed containers. Ground container and transfer equipment to eliminate static electric sparks.

Storage criteria:

Flammable liquid storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:

Provide general and/or local exhaust ventilation to control airborne concentrations below the recommended exposure guide-line.

Respirators:

CCROV, CCR with organic vapour cartridge. Supplied air respirator (SA). Self-contained breathing apparatus.

Exposure limits (UK EH 40):

Material	STD	LTEL	STEL
Xylene	OES	50ppm	100ppm
n-Butanol	OES	-	50ppm

Respiratory:

Should be used where there is a risk of exposure to high vapour concentrations.

Eye protection:

Use chemical goggles or face shield. If vapour exposure causes eye irritation, use a full-face respirator. Do not wear contact lenses when working with this material.

Protective clothing:

Use protective gloves made of: polyvinyl alcohol, viton rubber.

Hygienic work methods:

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet. Promptly remove any clothing that becomes wet or contaminated. Isolate contaminated clothing and wash before re-use.

Other protection:

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash, quick drench. Wear appropriate clothing to prevent any possibility of skin contact.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:

Liquid.

Colour:

Colourless.

Odour:

Aromatic.

Solubility description:

Practically insoluble.

Melting point:

- 34°C

Boiling point:

137 - 143°C

Specific gravity:

0.86 @ 20°C

Vapour density:

3.70 (Air = 1).

Mol. weight:

106.18

Viscosity @ 20°C:

0.60 cps

Evaporation rate:

0.70

Vapour pressure @ 20°C:

10.0 mbar

Flash point:

28°C

Flammability limit (upper):

9%

Flammability limit (lower):

1%

Autoignition temperature:

430°C

Autoflammability:

465°C

10. STABILITY & REACTIVITY

Stability:	Avoid heat, sparks, flames, air and oxidisers. Stable at normal temperatures and pressures.
Materials to avoid:	Strong acids, halogens, molten sulphur. Strong oxidising agents. Aluminium, aluminium powder, chromium trioxides.
Hazardous decomposition products:	Toxic gases vapours/fumes of carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Low order of acute toxicity.
Health warnings:	Gas or vapour is harmful on prolonged exposure or in high concentration. Narcotic effect. This chemical may cause skin/eye irritation and burns (corrosion). Defatting, drying and cracking of skin. Irritant of eyes and mucous membranes. Toxic through skin absorption (percutaneous). CNS depressant. Anaesthetic in high concentrations. Repeated exposure may cause chronic eye irritation. May cause chemical eye burns. Swallowing concentrated chemical may cause severe internal injury, unconsciousness, death. Acute eczematous dermatitis.
Route of entry:	Inhalation, skin absorption, ingestion, skin and/or eye contact.
Target organs:	Blood, central nervous system, eyes, gastro-intestinal tract, kidneys, liver respiratory system, lungs, skin.
Medical symptoms:	Extreme irritation of eyes and mucous membranes including burning and tearing. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation, general respiratory distress, unproductive cough. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Hypotension (low blood pressure).
Medical considerations:	Skin disorders and allergies. Convulsive disorders. CNS problems.

12. ECOLOGICAL INFORMATION

Environmental hazards (xylene):	No information available.
Environmental hazards (butanol):	Inhibition of degradation in activated sludge is not to be anticipated during correct introduction of low concentrations.
Acute fish toxicity (xylene):	LC50/rainbow trout 96 h static/2.6 - 8.4mg/l EC50/daphnia magna/24 h/1.0 - 1.7mg/l.
Water hazard class:	Class 2, hazardous for water. Do not allow product to reach ground water, water bodies or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into soil. Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product disposal:	Do not allow run-off to sewer, waterway or ground. Confirm disposal procedures with environmental engineer and local regulations. Do not land-fill. Large volumes may be redistilled by solvent contractor.
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14. TRANSPORT INFORMATION

Proper shipping name:	Xylenes		
Road			
ADR/RID Class:	3	ADR/RID Item No:	31c
Hazchem Code:	3 (Y)	ADR/RID Label No:	3
UN No:	UN 1307		
Sea			
IMO/IMDG Code:	3.3	IMDG Page No:	3158
UN No:	UN 1307	Packing Group:	III
Air			
IATA/ICAO Class:	3	Packing Group:	III
UN No:	UN 1307		
Packing Instruction (Pass & Cargo):	355	Packing Instruction (Cargo):	366

15. REGULATORY INFORMATION

Chemical name:	Xylene. n-Butanol.
Labelling:	According to EEC directives relating to packaging and labelling of dangerous substances and UK Chemicals Hazard Information and Packaging for Supply (CHIPS) legislation.
Safety phrases:	S2, Keep out of reach of children. S25, Avoid contact with eyes.
TSCA Certifications:	All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory.

16. OTHER INFORMATION

Symbols:	(Xi) Irritant. (Xn) Harmful.
Hazard statements:	H225, Highly flammable liquid and vapour. H226, Flammable liquid and vapour. H304, May be fatal if swallowed and enters airways. H312, Harmful in contact with skin. H315, Causes skin irritation. H319, Causes serious eye irritation. H332, Harmful if inhaled. H335, may cause respiratory irritation. H373, May cause damage to organs through prolonged or repeated exposure. H412, Harmful to aquatic life with long lasting effects.
Relevant risk phrases:	R10, Flammable. R11, Highly flammable. R20, Harmful by inhalation. R20/21, Harmful by inhalation and in contact with skin. R36/37/38, Irritating to eyes, respiratory system and skin. R65, Harmful: may cause lung damage if swallowed.

The information contained in this data sheet is based on present state of knowledge and current national legislation (CHIPS). It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for the particular applications.

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