



MATERIAL SAFETY DATA SHEET

PART NUMBER 11 10 65 / 11 10 67

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

Company Metprep Limited
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Telephone 02476 421222
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PRODUCT: EPO-FLO RESIN

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature

Formulated bisphenol A epoxy resin
reparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrases(s)	Concentration[%]
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	25068-38-6	Xi, N	R36/38 R43 R51/53	50.00 - 62.00
butanedioldiglycidyl ether EC-No.: 219-371-7	2425-79-8	Xn	R20/21 R36/38 R43 R52/53	40.00 - 52.00

SECTION 3 SUBSTANCE HAZARD IDENTIFICATION

Harmful by inhalation and in contact with skin. Irritating to eyes and skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment



SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. Call a physician immediately.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
Skin contact	Wash off immediately with soap and plenty of water. If skin irritation persists, call a doctor
Ingestion	Do not induce vomiting Immediately give plenty of water (if possible charcoal slurry) Obtain medical attention

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing Media	Water spray. Dry powder. Carbon dioxide (CO ₂) Foam.
Extinguishing media which Must not be used for safety reasons	High Volume water jet
Special protective Equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Further information	Burning produces obnoxious and toxic fumes. Carbon oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep away from sources of ignition - No smoking. Do not breath vapours/dust. Avoid contact with skin, eyes and clothing.
Environmental precautions	Prevent product from entering drains. Do not contaminate surface water. Avoid subsoil penetration.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste.

SECTION 7 HANDLING AND STORAGE

Handling Advice on safe handling	Provide sufficient air exchange and/or exhaust in work rooms. Handle and open container with care.
Storage Further information on storage conditions	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep at temperatures between 2 and 40°C.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION



Engineering measures

No special precautions required.

Personal protective equipment

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment. Filter type AX-P2 (organic vapours, particles)
Eye protection	Tightly fitting safety goggles.
Hand protection	Material of gloves for long term application (BTT>480 min): Butyl rubber Ethyl Vinyl Alcohol Laminate (EVAL) Material of gloves for short term/splash application (10 min<BTT<480 min): Nitrile rubber Neoprene rubber Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at www.gisbau.de
Skin and body protection	long sleeved clothing
Hygiene measures	Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product.
Protective measures	Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Form	liquid
Colour	light blue
Odour	clear slight
pH	approx at (20°C) 1:1 in water
Boiling point	>200 °C
Thermal decomposition	>200 °C
Flash point	>140 °C
	Method: DIN 51758
Vapour pressure	<0.01 Pa at 20 °C
Density	1.12 g/cm ³ at 25 °C
Water solubility	at 20 °C Note: partly soluble
Miscibility with water	immiscible at 20 °C
Viscosity, dynamic	150 mPa.s at 25 °C

SECTION 10

STABILITY AND REACTIVITY PROPERTIES



Conditions to avoid	Note: Take necessary action to avoid static electricity discharge.
Materials to avoid	Strong acids and strong bases. Strong oxidizing agents.
Hazardous decomposition Products	Carbon oxides. Burning produces obnoxious and toxic fumes.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat Dose >5,000 mg/kg
Eye irritation	irritating, rabbit
Skin irritation	irritating, rabbit, dermal
Sensitization	Causes sensitization Quinea pig dermal

SECTION 12 ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability	Result: not readily biodegradable
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Ecotoxicity effects

Additional ecological Information	Avoid subsoil penetration. Prevent product from entering the drains Do not contaminate surface water.
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SECTION 13 DISPOSAL CONSIDERATIONS

Product	Waste key number 070208 Must be incinerated, when in compliance with local regulations
Container	Empty containers can be land filled after cleaning, when in Compliance with Environmental Protection (duty of care) Regulations 1991.

SECTION 14 TRANSPORT INFORMATION



Land Transport

ADR:
Un-No: 3082
Class: 9
Classification code M6
Packaging Group III
Risk No: 90
ADR/RID- Labels 9
Proper Shipping Name: Environmentally hazardous substance, liquid
N.O.S
Contains Bisphenol A Epoxy Resin

Sea Transport

IMDG
UN-No: 3082
Class: 9
Packaging group III
ADR/RID Labels 9
MFAG:
EmS: F-A-S-F
Proper shipping name Environmentally hazardous substance, liquid
N.O.S
Contains Bisphenol A Epoxy Resin

Air Transport

IATA-DGR
UN/ID No: UN3082
Class: 9
Packaging Group III
Packing instruction 914
(Cargo aircraft)
Max. Qty/Pack 450L
(999.00 = No Limit)
Packing Instruction 914
(passenger aircraft)
Max. Qty/Pack 450L
ADR/RID Labels 9
Proper shipping name: Environmentally hazardous substance, liquid
N.O.S
Contains Bisphenol A Epoxy Resin



Labelling according to EEC Directive

Labelling required

Symbol(s):	Xn N	Harmful Dangerous for the environment
R-phrases(s)	R20/21 R36/38 R43 R51/53	Harmful by inhalation and in contact with skin Irritating to eyes and skin May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
S-phrases(s)	S28 S36/37/39 S61	After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and Eye/face protection. Avoid release to the environment. Refer to special Instructions/safety data sheets.
Exceptional labelling of Special preparations Hazardous components Which must be listed on the label:		Contains epoxy constituents. See information applied by manufacturer. butanedioldiglycidyl ether EC-No: 219-371-7 reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)

SECTION 16

OTHER INFORMATION

List of R-phrases (section 3)