



Safety Data Sheet

1 Identification of the Substance/Preparation and Company

PRODUCT NAME: EPOXY DPM
PRODUCT CODE: STK1000

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Interfloor Ltd.
Broadway,
Haslingden,
Rossendale,
Lancashire
BB4 4LS

Tel: 01706 213131
Fax: 01706 214737

www.stikatak.co.uk
www.interfloor.com

2 Hazards identification

Hazard designation:

Harmful by inhalation and if swallowed.
Causes burns
Irritating to eyes and skin
May cause sensitization by skin contact
Possible risk of impaired fertility
Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

3 Composition/Data on components:

· **Chemical characterization cuvette** Modified polyamidoamine preparation

Hazardous Components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
benzyl alcohol EC-No.: 202-859-9	100-51-6	Xn	R20/22	>= 20.00 - < 28.00
isophorone diamine EC- No.: 220-666-8	2855-13-2	C	R21/22 R34 R43 R52/53	>= 4.00 - < 10.00
m-xylylenediamine EC- No.: 216-032-5	1477-55-0	C	R20/22 R34 R43 R52/53	>= 4.00 - < 10.00
4,4'-isopropylidenediphenol EC-No.: 201-245-8	80-05-7	Xn	R37 R41 R43 R62	>= 4.00 - < 10.00
2,4,6-tris(dimethylaminomethyl)pheno- l EC-No.: 202-013-9	90-72-2	Xn	R22 R36/38	>= 1.00 - < 7.00
3-aminopropyl(dimethylamine EC-No.: 203-680-9	109-55-7	C	R10 R22 R34 R43	>= 1.00 - < 7.00
salicylic acid EC-No.: 200-712-3	69-72-7	Xn	R20/22 R41	>= 1.00 - < 7.00

· **Chemical characterization bucket** Modified epoxy resin preparation

Hazardous Components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(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
bisphenol F-epoxy resin	9003-36-5	Xi, N	R36/38 R43 R51/53	>= 20.00 - < 28.00
glycidylether of C12-C14 alcohols EC-No.: 271-846-8	68609-97-2	Xi, N	R36/38 R43 R51/53	>= 10.00 - < 18.00

4 First aid measures

Inhalation: Move to fresh air. If symptoms persist, call doctor

Eye Contact: Rinse eye immediately with plenty of water for at least 15 minutes. Call doctor immediately.

Skin Contact: wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Ingestion: immediately give plenty of water (if possible charcoal slurry).do not induce vomiting. If person vomits when lying on their back, place in recovery position. Give Oxygen or artificial respiration as required.

5 Fire fighting measures

Suitable extinguishing media: Water spray, Carbon dioxide (CO₂), Foam, Dry powder.

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. Nitrogen Oxides.

6 Accidental release measures

Personal precautions: Keep away from sources of ignition – No smoking. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust

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.

7 Handling and storage

· Handling

· Information for safe handling:

Sensitizing.

Avoid formation of aerosols.

Provide sufficient air exchange and/or exhaust in work rooms.

Ensure adequate ventilation.

Handle and open container with care.

Keep away from sources of ignition – No smoking.

· Storage

· Further information about storage conditions:

Keep away from food, drink and animal feeding stuffs.

Keep container tightly closed.

Keep at temperatures between 2 and 40°C.

8 Exposure controls and personal protection

· Additional information about design of technical systems:

Please take care on national and local requirements.

· Components with critical values that require monitoring at the workplace:

Components	CAS-No.	Control parameters	Update	Basis
4,4'-isopropylidenediphenol	80-05-7			

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. Face-shield

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

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.

Skin and body protection: Protective suit. Safety shoes

Protective measures: Do not breathe vapours/dust. Keep away from sources of ignition-No smoking. Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties:

· General Information

Property	Bucket Component	Cuvette Component
Form	Liquid	Liquid
Colour	Blue	Brown
Odour	Slight	
Boiling point	>100°C @ 1.013 hPa	Approx 135°C
Thermal decomposition	>200°C	
Flash point	Approx 130°C	85.5°C
Density @20°C	>1.13g/cc	1.03g/cc
Water Solubility @20°	Practically Insoluble	Partly Soluble
Miscibility with water	Immiscible	Immiscible
Viscosity	650-750 mPas	450-1400 mPas

10 Stability and reactivity

Conditions to avoid: take necessary precautions against static discharges.

Materials to avoid: Strong acids and strong bases. Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides. Nitrogen oxides. Burning produces obnoxious and toxic fumes.

11 Toxicological information

	Bucket Component	Cuvette Component
Acute Oral Toxicity LD50 rat	>2000mg/Kg	200 – 2000 mg/Kg
Eye Irritation rabbit	Irritating	Corrosive
Skin irritation rabbit dermal	Irritating	Corrosive
Sensitization guinea pig dermal	Causes sensitization	Causes sensitization

12 Ecological information:

Ecotoxicity effects

Further information on ecology

Additional ecological information : Avoid subsoil penetration.
Prevent product from entering drains.
Do not contaminate surface water.

13 Disposal considerations

· Recommendations

Product : Waste Key Number: 070208

Must be incinerated, when in compliance with local regulations.

Container : Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14 Transport information

	Cuvette Component	Bucket component
Land transport ADR		
UN-No	2375	3082
Class	8	9
Classification Code	C7	M6
Packaging group:	III	III
Risk No.:	80	90
ADR/RID-Labels:	8	9
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains:	M-XYLYLENE DIAMINE ISOPHORONE DIAMINE	BISPHENOL A EPOXY RESIN
Sea transport		
<i>IMDG:</i>		
UN-No:	2735	3082
Class:	8	9
Packaging group:	III	III
ADR/RID-Labels:	8	9
MFAG:		
EmS:	F-A S-B	F-A S-B

Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
contains:	M-XYLYLENE DIAMINE ISOPHORONE DIAMINE	BISPHENOL A EPOXY RESIN
Air transport		
<i>IATA-DGR:</i>		
UN/ID No.:	UN 2735	UN 3082
Class:	8	9
Packaging group:	III	III
Packing instruction (cargo aircraft)	820	914
Max. Qty/Pack.: (999.00 = No limit)	60.00 L	450.00 L
Packing instruction (passenger aircraft):	818	914
Max. Qty/Pack.: (999.00 = No limit)	5.00 L	450.00 L
ADR/RID-Labels:	8	9
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
contains:	M-XYLYLENE DIAMINE ISOPHORONE DIAMINE	BISPHENOL A EPOXY RESIN

15 Regulatory information

· Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Chemicals (Hazard, Information and Packaging for Supply) (CHIP) Regulations.



Corrosive

Irritant

Dangerous for the environment

Contains: Benzyl Alcohol; Isophorone Diamine; m-xylylenediamine; reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight<700); glycidylether of C12-C14 alcohols.

R20/22 Harmful by inhalation and if swallowed

R34 Causes burns

R36/38 Irritating to the eyes and skin

R43 May cause sensitization by skin contact

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62 Possible risk of impaired fertility

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 After contact with skin, wash immediately with plenty of soap and water

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

S61 Avoid release to the environment. Refer to special instructions/safety data sheets

Contains epoxy constituents. See information supplied by the manufacturer

16 Other information:

R10	Flammable
R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

This data is based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The information provided about the product on this Safety Sheet has been compiled from knowledge of the individual constituent.

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

· **Department issuing data specification sheet:** Quality Control

· **Contact:**

Scott Yarrow
Tel 0208 839 4405
Fax 0208 842 1387
e-mail: scottarrow@stikatak.co.uk