

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: **1-MIN EPOXY GEL RESIN**

Supplier: ITW Devcon
 Shannon Industrial Estate Brunel Close, Park Farm Ind. Est.,
 Co. Clare, Ireland. Wellingborough, Northants NN8 6QX

Emergency telephone number: 353(61)471299 01933 675299

Fax No: 353(61)471285 01933 670800

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}	25068-38-6	603-074-00-8	Xi; R36/38 R43 N; R51, R53	60-80

3. HAZARDS IDENTIFICATION

Most important hazards: Moderate skin irritation. N - Dangerous for the environment.

Specific hazards: Irritating to eyes and skin. May cause sensitization by skin contact.

4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance. Avoid contact with skin and eyes.

Inhalation: Move to fresh air. Consult a physician after significant exposure.

Skin contact: Remove immediately adhering matter, Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: Rinse mouth, Do not induce vomiting, Call a physician immediately. If a person vomits when lying on his back, turn over on his side.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: dry powder, foam, Carbon Dioxide (CO₂)

Extinguishing media which must not be used for safety reasons: High volume water jet.

Specific hazards: Burning produces irritant fumes.

Special protective equipment for firefighters: In case of fire, wear a self contained breathing apparatus, protective suit.

Specific methods: Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation.

Environmental precautions: Do not contaminate water. Avoid subsoil penetration.

Methods for cleaning up: Dam up, Scrape up, Soak up with inert absorbent material, Transfer to covered steel drums.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Keep away from heat and sources of ignition. General industrial hygiene practice.

Storage: Keep containers tightly closed in a cool, well-ventilated place.

Product name: **1-MIN EPOXY GEL RESIN**

PRINT DATE: 19/03/2003

REF: X0127

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: National occupational exposure limits:

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT} no data availableEngineering measures to
reduce exposure

- Respiratory protection: No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.
 - Hand protection: Solvent-resistant gloves (butylrubber)
 - Eye protection: safety glasses with side-shields, goggles.
 - Skin and body protection: Wear as appropriate.
- Hygiene measures: Wash hands before breaks and immediately after handling the product, Keep away from food, drink and animal feeding stuffs. Do not smoke. General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIESForm: **liquid.** Colour: **light yellow.** Odour: **mild, epoxy.**g/l H₂O)

Boiling point/range: > 204 °C
Flash point: >93.3 °C
Melting point/range: n/d °C
Autoignition temperature: >290 °C
Flammability (solid, gas): Not applicable
Oxidizing properties: Not applicable.
Vapour pressure: 0.01
Relative density: - lower 1 (25 °C)
- upper 1.8
VOC: 1160 g/l
Water solubility negligible.
Partition coefficient (n-octanol/water) >2.5.

10. STABILITY AND REACTIVITY

Stability: Stable.
Conditions to avoid: Prolonged heating at temperatures above 50°C.
Materials to avoid: strong acids and oxidizing agents, amines.
Hazardous decomposition products: No decomposition if stored normally.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Epoxy constituents: LD₅₀/oral/rat = 30g/Kg
LD₅₀/dermal/rabbit = > 20 ml/Kg
LC₅₀/inhalation/4h/rat = fatality = 0
Local effects: Moderate skin irritation.
Sensitization: May cause sensitization by skin contact.
Long term toxicity: Components of the product may be absorbed into the body by inhalation and ingestion.. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

12. ECOLOGICAL INFORMATION

Mobility: Do not contaminate water. Do not let product enter drains.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Solidify unexposed surplus and dispose of together with processed material as cured plastic waste - In accordance with local and national regulations.

Contaminated packaging: In accordance with local and national regulations.

European waste Catalogue No: 08 04 99

14. TRANSPORT INFORMATION

Proper shipping name: Not classified as dangerous in the meaning of transport regulations: UN, ADR/RID, IMO & IATA/ICAO.

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- Contains: BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

water contaminating: 2

- Symbol(s):



Xi



N -
Dangerous
for the
environment

R -phrase(s): R43 - May cause sensitization by skin contact. R36 - Irritating to eyes. R38 - Irritating to skin. R51 - Toxic to aquatic organisms. R53 - May cause long-term adverse effects in the aquatic environment.

S -phrase(s): S28 - After contact with skin, wash immediately with plenty of water. S37/39 - Wear suitable gloves and eye/face protection.

VBF: None

16. OTHER INFORMATION

Recommended use: Adhesives.

Recommended restrictions:

When used in a mixture, read the labels and safety data sheets of all components.

Revision date: 12/02/2003

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: **1 MIN EPOXY GEL HARDENER.**
 Supplier: ITW Devcon
 Shannon Industrial Estate Brunel Close, Park Farm Ind. Est.,
 Co. Clare, Ireland. Wellingborough, Northants NN8 6QX
 Emergency telephone number: 353(61)471299 01933 675299
 Fax No: 353(61)471285 01933 670800

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation	Formulated product.			
Chemical Name	CAS-No	EEC-No	Class	Weight %
POLYMERCAPTAN-POLYAMIDE CURING AGENT			R21 C; R34 R43.	80-100

3. HAZARDS IDENTIFICATION

Most important hazards: Corrosive, severe irritation.
 Specific hazards Irritating to eyes and skin.

4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance. Avoid contact with skin and eyes.
 Inhalation: Move to fresh air. Consult a physician after significant exposure.
 Skin contact: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash off immediately with soap and plenty of water, If skin irritation persists, call a physician.
 Eye contact: Rinse immediately with plenty of water and seek medical advice.
 Ingestion: Do not induce vomiting. If a person vomits when lying on his back, turn over on his side. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon Dioxide (CO₂), foam, dry chemical
 Extinguishing media which must not be used for safety reasons:
 High volume water jet.
 Specific hazards: Burning produces irritant fumes.
 Special protective equipment for firefighters: In case of fire, wear a self contained breathing apparatus.
 Specific methods: Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Use personal protective equipment. Ensure adequate ventilation.
 Environmental precautions: Do not let product enter drains. Avoid subsoil penetration.
 Methods for cleaning up: Dam up. Scrape up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas
 Storage: Keep containers tightly closed in a cool, well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: National occupational exposure limits:
 POLYMERCAPTAN-POLYAMIDE CURING AGENT no data available

Product name: **1 MIN EPOXY GEL
HARDENER.**

PRINT DATE: 19/03/2003

REF: X0128

Engineering measures to reduce exposure	Ensure adequate ventilation, especially in confined areas..
- Respiratory protection:	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection:	solvent-resistant gloves.
- Eye protection:	safety glasses, goggles.
- Skin and body protection:	lightweight protective clothing.
Hygiene measures:	Keep away from food, drink and animal feeding stuffs. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing. General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	viscous liquid.	Colour:	amber.	Odour:	pungent.
	g/l H ₂ O)				
Flash point:		>93	°C		
Vapour pressure:		<<1			
Relative density:		- lower	1.12		
Water solubility		partly soluble			

10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to avoid:	Prolonged heating at temperatures above.
Materials to avoid:	strong acids and oxidizing agents, amines.
Hazardous decomposition products:	carbon oxides, nitrogen oxides (NO _x).

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD ₅₀ /oral/rat = >3g/kg Epoxy - LD ₅₀ /oral/mouse = 15.6g/kg
Local effects:	Severe skin irritation (rabbit)
Long term toxicity:	no data available

12. ECOLOGICAL INFORMATION

Mobility:	Do not let product enter drains. Avoid subsoil penetration.
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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Solidify unexposed surplus and dispose of together with processed material as cured plastic waste In accordance with local and national regulations
Contaminated packaging:	In accordance with local and national regulations
European waste Catalogue No:	08 04 99

14. TRANSPORT INFORMATION

Proper shipping name:	Corrosive liquid, basic , organic, n.o.s (Mercaptan/ amine blend).
UN-No:	3267
ADR/RID Class:	8
	HI/UN No: 3267
IMO Class:	8
	Packing group : III
Proper shipping name:	Corrosive liquid, basic, organic, n.o.s (mercaptan amine blend).
ICAO Class:	8
	UN/ID No: 3267
Proper shipping name	Corrosive liquid, basic, organic, n.o.s. (mercaptan amine blend).

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- Contains: Mercaptan /Amine

water contaminating: 2

- Symbol(s):



C - Corrosive

R -phrase(s): R34 - Causes burns R36/38 - Irritating to eyes and skin. R43 - May cause sensitization by skin contact..

S -phrase(s): S28 - After contact with skin, wash immediately with plenty of water. S37/39 - Wear suitable gloves and eye/face protection. S51 - Use only in well ventilated areas.

VBF: None

16. OTHER INFORMATION

Recommended use: Adhesives.

Recommended restrictions:

When used in a mixture, read the labels and safety data sheets of all components.

Revision date: 08/07/2002

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication