

SAFETY DATA SHEET**GROUTING COMPOUND 1000A1 RESIN****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

Chemical characterization	Formulated epoxy resin	
Supplier	INTECSER AG Augsterstrasse 52 CH-4133 Pratteln Switzerland	
Emergency telephone number	Tel (+41) 0 61 / 811 46 60	Fax (+41) 061 / 811 46 66

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	80-100%	bisphenol A/F-epoxy resins, mw <700 CAS 40216-08-8 Xi, N R-36/38-43-51/53
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3. HAZARDS IDENTIFICATION

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.

4. FIRST AID MEASURES

General advice	Take off immediately all contaminated clothing.
Inhalation	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
Skin contact	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	Immediately give plenty of water (if possible charcoal slurry). Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

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

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation. Remove all sources of ignition.

Environmental precautions Prevent product from entering drains. Do not allow material to contaminate ground water system.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean with detergents. Avoid solvents.

7. HANDLING AND STORAGE

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

Storage Keep out of reach of children. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Do not freeze. Store in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure
Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

Respiratory protection No special protective equipment required.

Hand protection Latex gloves.

Eye protection Goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid.	
Colour	Clear.	
Odour	Mild.	
Physical and chemical properties		
	Boiling point/range	>200 °C.
	Decomposition temperature	>200 °C.
	Flash point	>135 °C.
	Density	1.6-1,8 g/ml. (25°C)
	Water solubility	<0.5 %.
	Vapour pressure	<1 Pa.

10. STABILITY AND REACTIVITY

Stability	Stable at normal conditions.
Conditions to avoid	Exothermic reaction with strong acids. Do not expose to temperatures above 50 °C.
Materials to avoid	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	Carbon monoxide. Carbon oxides. Combustion produces caustic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50/oral/rat = >5000 mg/kg.
Local effects	Negligible.
Long term toxicity	Chronic intensive skin contact may cause dermatitis.
Sensitization	Causes sensitization on guinea-pigs.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available.
Mobility	No data available.
Persistence / degradability	No data available.
Bioaccumulation	No data available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

14. TRANSPORT INFORMATION

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
UN-No	3082
ADR/RID	Class 9. Packing group III. ADR/RID-Labels 9. TREM-CARD 9. Classification code: M6 Kemler code 90. Additional information: BISPHENOL A/F EPOXY RESIN.
IMO	Class 9. Packaging group III. IMO-Labels 9 EmS: F-A / S-F. Additional information: (BISPHENOL A/F EPOXY RESIN).
ICAO	Class 9. Packaging group III. ICAO-Labels 9. Additional information: (BISPHENOL A/F EPOXY RESIN). Packing instruction (passenger aircraft): 914, No Limit. Packing instruction (cargo aircraft): 914, No Limit.

15. REGULATORY INFORMATION

Regulatory Information	Bisphenol A/F epoxy resin
Symbol(s)	Xi - Irritant. N - Dangerous for the environment.
R-phrase(s)	R36/38: Irritating to 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.
S-phrase(s)	S28: After contact with skin, wash immediately with plenty of soap and water. S37/39: Wear suitable gloves and eye/face protection. S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Recommended use	For the building industry
Further information	R36/38: Irritating to 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.
Disclaimer	The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. And is not to be considered a warranty or quality specification.
Revision Date	05.03.2003
Number	Version 2

SAFETY DATA SHEET

GROUTING COMPOUND 1000A1 HARDENER

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

Chemical characterization	Modified aliphatic polyamine	
Supplier	INTECSER AG Augsterstrasse 52 CH-4133 Pratteln Switzerland	
Emergency telephone number	Tel (+41) 0 61 / 811 46 60	Fax (+41) 061 / 811 46 66

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	80-92%	trimethylhexamethylenediamine CAS 25620-58-0 EC-No. 247-134-8 C R-22-34-43-52/53
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3. HAZARDS IDENTIFICATION

Harmful if swallowed. Causes burns. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Inhalation	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
Skin contact	Wash off immediately with soap and plenty of water.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	Immediately give plenty of water (if possible charcoal slurry). Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Obtain medical attention.

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.

Specific hazards Burning produces irritant fumes.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment. Remove all sources of ignition.

Environmental precautions Prevent product from entering drains. Avoid subsoil penetration. Do not allow material to contaminate ground water system.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. Handle and open container with care.

Storage Keep out of reach of children. Store at room temperature in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Latex gloves. Before removing gloves clean them with soap and water.

Eye protection Goggles.

Skin and body protection Protective suit. Safety shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid.
Colour	Light yellow.
Odour	Amine-like.

Physical and chemical properties

pH	ca. 11
Boiling point/range	>200 °C.
Decomposition temperature	>200 °C.
Flash point	114 °C. (DIN 51758)
Water solubility:	partly soluble.
Vapour pressure	<100 Pa.
Viscosity	15-20 mPa.s. (25°C)
Density	0.9-0.95 g/ml. (25°C)

10. STABILITY AND REACTIVITY

Stability	Stable up to approximately 200 °C.
Conditions to avoid	Do not expose to temperatures above 50 °C.
Materials to avoid	Incompatible with acids. Incompatible with oxidizing agents.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50/oral/rat = 850 mg/kg.
Local effects	The product causes burns of eyes, skin and mucous membranes.
Long term toxicity	Repeated contact may cause allergic reactions with very susceptible persons.
Sensitization	Causes sensitization.

12. ECOLOGICAL INFORMATION

Ecotoxicity	May change pH of waters.
Bioaccumulation	Aquatic toxicity is unlikely due to low solubility.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Can be incinerated, when in compliance with local regulations.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Proper shipping name	TRIMETHYLHEXAMETHYLENEDIAMINES SOLUTION		
UN-No	2327		
ADR/RID	Class 8. ADR/RID-Labels 8. TREM-CARD 8.	Packing group III.	Kemler code 80. Classification code: C7
IMO	Class 8. IMO-Labels 8.	Packaging group III.	EmS: F-A / S-B
ICAO	Class 8. Packing instruction (passenger aircraft): 818, 5 L. Packing instruction (cargo aircraft): 820, 60 L. ICAO-Labels 8.	Packaging group III.	

15. REGULATORY INFORMATION

Regulatory Information	Trimethylhexamethylenediamine	
Symbol(s)	C - Corrosive.	
R-phrases(s)	R22:	Harmful if swallowed.
	R34:	Causes burns.
	R43:	May cause sensitization by skin contact.
	R52/53:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	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 the label where possible).
	S61:	Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Further information

R22: Harmful if swallowed. R34: Causes burns. R43: May cause sensitization by skin contact. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Revision Date

05.03.2003

Number

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