

MATERIAL SAFETY DATA SHEET

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Date: October 21, 2002

Previous date: June 28, 2001

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

TRADE NAME: Metso XT Backing, comp. A To be used together with comp. B.

FIELD OF APPLICATION: Casting Compound **CHEMICAL/TECHNICAL NAME:** Resin for Casting Compound

MANUFACTURER: AB KORROFLEX **TELEPHONE:** 46-411 55 75 50

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2. COMPOSITION / INFORMATION ON INGREDIENTS

No:	Name:	CAS-No	EU-No	Conc.	Hgv.	Remarks	Classification:	R-ref.
	Bisphenol A/F epoxy resin	40216-08-8		< 25 %			Xi, N	R36/38,43,52/53
	Diisopropyl naphthalene isomer	38640-62-9		< 5 %				
<u>Other substances</u>								
	Filler containing silica			> 30%				
Description of the hazards:		Very toxic T+				Extremely flammable F+		
		Toxic T		Corrosive C		Flammable Fo		
		Harmful X		Dangerous for the		Explosive E		
		Irritant Xi		environment N		Oxidizing O		

3. HAZARDS IDENTIFICATION

Inhalation:

Contact with skin: Irritating to skin, may cause sensitization by skin contact.

Contact with eyes: Irritating to eyes.

Ingestion:

Environment: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Fire:

4. FIRST-AID MEASURES

Generally:

After inhalation: Supply fresh air.

After contact with skin: Take contaminated clothing off. Instantly wash with soap and plenty of water.

After splashes in eyes: Rinse immediately with water for 15-30 min. Seek medical advice.

After ingestion: Rinse mouth and drink plenty of water. Seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing equipment: Use water spray, foam, CO₂ or Dry Chemical.

6. ACCIDENTAL RELEASE MEASURES

Absorb with liquid-binding material (sand, saw dust etc.).

Disposal must be carried out in accordance with the applicable official regulations.

7. HANDLING AND STORAGE

Handling: Prevent direct contact with the product. Ensure adequate ventilation.

Storage: Store in cool, dry conditions in well sealed containers.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Measures to prevent exposure:

Respiratory protection: Use in well ventilated areas.
Skin protection: Wear suitable protective clothing.
Eye protection: Wear safety goggles or face shield.
Hand protection: Wear plastic protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: viscous	Colour: light grey	Odour:		
Density: 1500 kg/m ³	Boiling point/range: > 200° C	Flash point: > 200° C	Self-ignition temp.: > 400° C	
Solubility in water: insoluble	Vapour pressure: < 0,001 Pa	Solubility in organic solvents: soluble		

10. STABILITY AND REACTIVITY

Stability: Comp. A + Comp. B react under exothermic polymerization.
Materials to be avoided: Acids, amines.
Hazardous decomposition products: Under certain fire conditions traces of irritating gases cannot be excluded.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 Epoxy resin oral > 10.000 mg/kg rat dermal > 2.000 mg/kg rabbit

Inhalation:
Contact with skin: May cause sensitization by skin contact.
Eye contact: Irritating to eyes.

12. ECOLOGICAL INFORMATION

Uncured, low molecular, epoxy resins are toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Uncured material must be disposed of as hazardous waste.
Cured material can be disposed of as ordinary waste.

14. TRANSPORT INFORMATION

UN	Packaging group	UN No.		
IMDG(sea) Class	Page	EmS No.....	MFAG No.....
ADR/RID/ADR-S/RID-S(road-rai).....		Class	Article No.....	
DGR(air)	Class		

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15. REGULATORY INFORMATION

Classification: Xi = Irritant

R-phrases: 36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with soap and plenty of water.
36/39 Wear suitable protective clothing and eye/face protection.
61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheet.

Contains: Low molecular epoxy resin < 25 %

16. OTHER INFORMATION

Date of readjustment: October 21, 2002

Previous date: June 28, 2001

Sources of information: Suppliers of raw material, own report.

Metso XT Backing, comp. A, must be used together with Metso XT Backing, comp. B.



METSO XT BACKING

METSO XT BACKING is a two component epoxy based backing and damping material for stone crushers.

METSO XT BACKING serves as a backing and reinforcing layer between machine parts and as a damper when subjected to impact and shock loads.

METSO XT BACKING is used for filling of cavities between upper part of crusher and outer jacket and between supporting cone and inner jacket in cone crushers as well as between upper part of stand and crusher jaws and supporting cone and inner jacket in gyratory crushers, respectively.

TECHNICAL DATA AT +20° C

Density	1500 kg/m ³
Compressive strength	125 MPa
Adhesion to iron/steel	12 MPa
Curing shrinkage	0,01 %

TEMPERATURE RESISTANCE

It is recommended to bring **METSO XT BACKING** to the most suitable working temperature by placing it in a room of about +20° C for at least 24 hours. At lower temperatures the plastic material will be more viscous and at temperatures above +30° C the pot life of **METSO XT BACKING** will be reduced. At temperatures below +5° C and above +40° C no casting ought to be carried out.

PREREQUISITES

See respective crusher maker's instructions for backing with plastic material.

MIXING

METSO XT BACKING is delivered in two components which ratio must not be altered. Stir up part A with a suitable tool, for instance a slowly running drilling machine provided with a simple hook, and then mix it thoroughly with part B (curing agent). Part A and part B have different colours in order to observe complete mixing. Non-observance of the ratio of components or bad mixing will cause the compound not to harden in several parts and the whole work will be spoiled.

POT LIFE

Approx. 15 minutes at +20° C.

CLEANING OF TOOLS

Clean the implements with methylated spirit immediately after use. Cured **METSO XT BACKING** is difficult to remove.

CURING TIME AT +20° C

The compound is hardened after 24 hours, however complete curing i.e. full compressive strength is not obtained until after about 5 days.

PACKAGING

METSO XT BACKING is delivered in standard packs containing 10 kg.

SHELF LIFE

Unopened in factory-made packs and stored in dry and cool rooms **METSO XT BACKING** has a shelf life of approx. 12 months from the date of manufacture.

HYGIENE

As all epoxy resin products **METSO XT BACKING** can cause an allergic reaction after prolonged contact with sensitive skin. Therefore avoid contact with skin and use protective ointment. Plastic gloves and protective clothing are recommended. After contact with skin wash immediately with plenty of water and soap. Do not use solvents. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Ensure good air circulation in the room. Please consult specific instructions in your country.

The information in this bulletin is, to our best knowledge, true and accurate; however no guaranty is implied and no liability assumed

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Date: October 21, 2002

Previous date: June 28, 2001

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

TRADE NAME:	Metso XT Backing, comp. B	To be used together with comp. A
FIELD OF APPLICATION:	Casting compound	CHEMICAL/TECHNICAL NAME: Curing Agent for Casting Compound
MANUFACTURER:	AB KORROFLEX	TELEPHONE: 46-411 55 75 50
ADDRESS:	Box 119, S-274 23 SKURUP Sweden	TELEFAX: 46-411 55 75 55
INFORMATION ISSUED BY:	Sven Nervé	e-mail: info@korroflex.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

No:	Name:	CAS-No	EU-No	Conc.	Hgv.	Remarks	Classification:	R-ref.
	N-Aminoethyl piperazine	140-31-8		> 30%			C	R21/22,34,43,52/53
	Triethylene tetramine	112-24-3		10-30%			C	R21/22,34,43,52/53
	Benzyl alcohol	100-51-6		10-30%			X	R20/22
<u>Other substances</u>								
	Colour pigments			< 1%				
Description of the hazards:		Very toxic T+				Extremely flammable F+		
		Toxic T		Corrosive C		Flammable Fo		
		Harmful X		Dangerous for the environment N		Explosive E		
		Irritant Xi				Oxidizing O		

3. HAZARDS IDENTIFICATION

Inhalation:	Irritating to respiratory system.
Contact with skin:	Causes burns. May cause sensitization by skin contact.
Splashes in eyes:	Causes burns. Risk of damage to eyes.
Ingestion:	Harmful if swallowed.
Environment:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Generally:	
Inhalation:	Supply fresh air. If necessary seek medical advice.
Contact with skin:	Take contaminated clothing off. Instantly wash with soap and plenty of water.
Contact with eyes:	Rinse immediately with water for 15-30 min. Seek medical advice.
Ingestion:	Rinse mouth and drink plenty of water. Seek medical advice. Show package or label.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing equipment: Use water spray, foam, CO₂ or Dry Chemical.

6. ACCIDENTAL RELEASE MEASURES

Absorb with liquid-binding material (sand, saw dust etc.).
Disposal in container for chemical waste.

7. HANDLING AND STORAGE

Handling:	Prevent direct contact with the product. Ensure adequate ventilation.
Storage:	Store in cool, dry conditions in well sealed containers.

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TRADE NAME: Metso XT Backing, comp. B

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Measures to prevent exposure: Good ventilation. Mechanical ventilation or fume extractor may be necessary.
Eye flushing within easy reach.

Respiratory protection: Use in well ventilated areas.

Skin protection: Wear suitable protective clothing.

Eye protection: Wear safety goggles or face shield.

Hand protection: Wear plastic protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid	Colour: black	Odour: ammonia		
Melting point/range: -18° C	Boiling point/range: > 200° C	Flash point: > 100° C	Self-ignition temp.: > 150° C	
Density: 980 kg/m ³	Vapour pressure: 0,007 kPa	pH in concentrate: ca 12		
Explosive limits: Not explosive	Rel. evaporation rate:	pH in dil. used:		
Solubility in water: mixable	Solubility in organic solvents: mixable			

10. STABILITY AND REACTIVITY

Stability: Comp. A + Comp. B react under exothermic polymerization.

Materials to be avoided: Acids, oxidizing solutions, copper compounds.

Hazardous decomposition products: Under certain fire conditions traces of toxic gases cannot be excluded.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: oral 1470-2140 mg/kg rat dermal 880-1260 mg/kg rabbit

Inhalation: Irritating to respiratory system.

Contact with skin: Causes burns. May cause sensitization by skin contact.

Contact with eyes: Causes burns. Danger of serious damage to eyes.

Ingestion: Harmful if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicological data: LC50 96H Oncorhynchus mykiss >100mg/l, EC50 48H Daphnia magna 32mg/l, EC50 72H alge >300 mg/l.

Decomposition: Not easily biologically decomposed. < 60% BOD, 28 days, Closed Bottle Test (OECD 301D).

Bioaccumulation: Not expected due to the low Log Pow Value.

Water classification: WGK:1 (VCI Selbsteinstufung).

13. DISPOSAL CONSIDERATIONS

Uncured material must be disposed of as hazardous waste.
Cured material can be disposed of as ordinary waste.

14. TRANSPORT INFORMATION

UN	Packaging group III	UN No. 2735		
IMDG(sea)	2735 Class 8	Page.....	EmS No. 8-05	MFAG No. 320
ADR/RID/ADR-S/RID-S(road-rail)	2735	Class 8	Article No.....	
DGR(air)	Class 8		

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Date: October 21, 2002

TRADE NAME: Metso XT Backing, comp. B

15. REGULATORY INFORMATION

Classification: C = Corrosive

R-phrases: 21/22 Harmful in contact with skin and if swallowed.
34 Causes burns.
43 May cause sensitization by skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with soap and plenty of water.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheet.

Contents: Aliphatic polyamine > 30%.

16. OTHER INFORMATION

Date of readjustment: October 21, 2002

Previous date: June 28, 2001

Sources of information: Suppliers of raw material, own report

Metso XT Backing, comp. B, must be used together with Metso XT Backing, comp. A.