



SAFETY DATA SHEET

MASTERFLOW 101 HARDENER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: MASTERFLOW 101 HARDENER

PART No.: F354769

SYNONYMS, TRADE NAMES: FEBFAST PG

SUPPLIER: MBT Feb
Albany House
Swinton Hall Road
Swinton Manchester M27 4DT

TEL: (+44) 161 794 7411

FAX: (+44) 161 727 8547

EMERGENCY TELEPHONE(S): +44 (0)161 794 7411

2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EINECS No.	CAS No.	CONTENTS	SYMBOL	RISK (R No.)
METHYLENEDICYCLOHEXALAMINE		1761-71-3	1-5 %	C	22, 35, 37, 43
BENZENE-1,3-DIMETHANAMINE		1477-55-0	10-30 %	C	20/22, 35, 43
POLYETHYLENE POLYAMINES		90640-67-8	10-30 %	C	21, 34, 43
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	202-013-9	90-72-2	5-10 %	Xn	22, 36/38

The full text for all R-phrases are shown in section 16.

COMPOSITION COMMENTS: Three component epoxy resin based product. Hardener component based on aliphatic amines.

3 HAZARDS IDENTIFICATION

Harmful if swallowed.
Causes severe burns.
May cause sensitisation by skin contact.

4 FIRST AID MEASURES

INHALATION: Move the exposed person to fresh air at once. Rinse nose and mouth with water. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately! Rinse mouth thoroughly. Provide rest, warmth and fresh air.

SKIN: Remove affected person from source of contamination. Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush the skin with water. Get medical attention promptly if symptoms occur after washing.

EYES: Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.



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5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Fire can be extinguished using: Water spray, fog or mist. Foam. Powder.

6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS TO PROTECT ENVIRONMENT:

Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.

SPILL CLEANUP METHODS:

Wear necessary protective equipment. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS:

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS:

Keep away from heat, sparks and open flame. Keep in cool, dry, ventilated storage and closed containers. Keep in original container.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT COMMENTS:

OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT:



VENTILATION:

Provide adequate general and local exhaust ventilation.

RESPIRATORS:

Respiratory protection must be used if air concentration exceeds acceptable level.

PROTECTIVE GLOVES:

Use protective gloves made of: Butyl rubber or polyvinyl acetate.

EYE PROTECTION:

Use approved safety goggles or face shield.

OTHER PROTECTION:

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENIC WORK ROUTINES:

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. No eating or drinking while working with this material.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Liquid.

COLOUR:

Varying.

ODOUR/TASTE:

Odourless or no characteristic odour.

SOLUBILITY DESCRIPTION:

Soluble in water.

FLASH POINT (°C):

> 100

10 STABILITY AND REACTIVITY

STABILITY:

Normally stable.

CONDITIONS TO AVOID:

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

HAZARDOUS DECOMPOSITION PRODUCTS:

High temperatures generate: Toxic gases/vapours/fumes of: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous Oxides (NO)



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11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA:

Acute toxicity.	LD50.	Rat.	>500 mg/kg
Acute toxicity.	LD50.	Rat.	>2000 mg/kg

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Not readily biodegradable

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of in accordance with Local Authority requirements.

14 TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:



ROAD:

UN No:	2735	ADR CLASS No:	8
HAZARD CLASS (ADR):	Class 8: Corrosive substances.	HAZARD No. (ADR):	80
ADR ITEM No:	53°(b) or 53°(c)	ADR LABEL No:	8
MARGINAL:	2801	CEFIC TEC(R) No:	80G15
HAZCHEM CODE:	3X		
PROPER SHIPPING NAME I:	AMINES or POLYAMINES, LIQUID, CORROSIVE, NOS (Contains POLYETHYLENE POLYAMINES)		

RAIL:

RAIL TRANSPORT CLASS No: 8 **RAILROAD PT:** 53(c)

SEA:

UN SEA: 2735 **SEA TRANSPORT CLASS No:** 8
IMDG Page No: 8109-2 **SEA PACK GR:** III
EmS No.: 8-05 **MFAG Table No:** 320

AIR:

UN AIR: 2735 **AIR TRANSPORT CLASS No:** 8
AIR PACK GR: III



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15 REGULATORY INFORMATION

LABEL FOR SUPPLY:



HARMFUL



CORROSIVE

RISK PHRASES:	R-22 R-35 R-43	Harmful if swallowed. Causes severe burns. May cause sensitisation by skin contact.
SAFETY PHRASES:	S-24/25 S-26 S-36/37/39 S-45 S-60	Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste.

16 OTHER INFORMATION

REVISION DATE:	01/10/01	
REVISION No. /REPLACES SDS ISSUED:	Issue 1	
SDS No.:	SDS0218	
R-PHRASES (Full Text):	R-21 R-22 R-34 R-35 R-37 R-43 R-20/22 R-36/38	Harmful in contact with skin. Harmful if swallowed. Causes burns. Causes severe burns. Irritating to respiratory system. May cause sensitisation by skin contact. Harmful by inhalation and if swallowed. Irritating to eyes and skin.