



# SAFETY DATA SHEET

## FEBOX HARDENER

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

**PRODUCT NAME:** FEBOX HARDENER

**PART No.:** F000000

### 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

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

**COMPOSITION COMMENTS:** Two component epoxy resin based product.: Hardener component based on  cycloaliphatic/aliphatic amine.

### 3 HAZARDS IDENTIFICATION

Causes severe burns.  
May cause sensitisation by skin contact.

### 4 FIRST AID MEASURES

**INHALATION:** Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

**INGESTION:** DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!  
Provide rest, warmth and fresh air.

**SKIN:** Remove affected person from source of contamination. Immediately remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

**EYES:** 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.

### 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.



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**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:** Viscous. Liquid. **COLOUR:** Amber.

**ODOUR/TASTE:** Amine.

**SOLUBILITY DESCRIPTION:** Largely immiscible **SPECIFIC GRAVITY (Water=1):** Approx 1.1

**FLASH POINT (°C):** >93

### 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 (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous Oxides (NO)

### 11 TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL DATA:**

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



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### 12 ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** Not readily biodegradeable

### 13 DISPOSAL CONSIDERATIONS

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

### 14 TRANSPORT INFORMATION

**LABEL FOR CONVEYANCE:**



**ROAD:**

<b>UN No:</b>	2735	<b>ADR CLASS No:</b>	8
<b>HAZARD CLASS (ADR):</b>	Class 8: Corrosive substances.	<b>HAZARD No. (ADR):</b>	80
<b>ADR ITEM No:</b>	53 (c)	<b>ADR LABEL No:</b>	8
<b>MARGINAL:</b>	2801	<b>CEFIC TEC(R) No:</b>	80G15
<b>HAZCHEM CODE:</b>	3X		
<b>PROPER SHIPPING NAME I:</b>	AMINES, LIQUID, CORROSIVE, NOS (Contains BENZENE-1,3-DIMETHANAMINE)		

**RAIL:**

<b>RAIL TRANSPORT CLASS No:</b>	8	<b>RAILROAD PT:</b>	53(c)
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**SEA:**

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

**AIR:**

<b>UN AIR:</b>	2735	<b>AIR TRANSPORT CLASS No:</b>	8
<b>AIR PACK GR:</b>	III		

### 15 REGULATORY INFORMATION

**LABEL FOR SUPPLY:**



**CORROSIVE**

<b>RISK PHRASES:</b>	R-35	Causes severe burns.
	R-43	May cause sensitisation by skin contact.

<b>SAFETY PHRASES:</b>	S-1/2	Keep locked up and out of the reach of children.
	S-20	When using do not eat or drink.
	S-24/25	Avoid contact with skin and eyes.
	S-26	In case of contact with eyes, rinse immediately with plenty of water and



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S-27/28	seek medical advice. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of...
S-36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S-45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S-56	Dispose of this material and its container to hazardous or special waste collection point.

### 16 OTHER INFORMATION

<b>REVISION DATE:</b>	01/10/01	
<b>REVISION No. /REPLACES SDS ISSUED:</b>	Issue 1	
<b>SDS No.:</b>	SDS0214	
<b>R-PHRASES (Full Text):</b>	R-22	Harmful if swallowed.
	R-35	Causes severe burns.
	R-37	Irritating to respiratory system.
	R-43	May cause sensitisation by skin contact.
	R-20/22	Harmful by inhalation and if swallowed.