

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: METPREP LTD.
CURRIERS CLOSE
CHARTER AVENUE
COVENTRY CV4 8AW

TELEPHONE: PRODUCT INFORMATION: 024 7642 1222

FAX: 024 7642 1192

CHEMICAL NAME:

PRODUCT: EPOSET HARDENER

PRODUCT NUMBERS: 11 10 62, 11 10 64

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NATURE:
Modified aliphatic polyamine preparation

INGREDIENT (S):	CAS NUMBER:	%:	HAZARD SYMBOL:	R PHRASES:
Triethylenetetramine	112-24-3	22-30	C	21,34,43,52/43

3. HAZARDS IDENTIFICATION

Irritating to skin
Risk of serious damage to eyes.
May cause sensitisation by skin contact.

4. FIRST AID MEASURES

GENERAL INFORMATION: Remove contaminated or saturated clothing immediately.

INHALATION: Possible discomfort. Irritation of mucous lining (nose, throat, eyes) cough, sneezing, flow of tears. Take affected persons out into fresh air. In case of persistent discomfort seek medical attention.

SKIN: When contact with skin, rinse immediately with soap and water.

EYE: Irrigate with eyewash solution or clear water, holding the eyelids apart, for at least 5 minutes. Obtain immediate medical attention.

INGESTION: Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention. Never give anything by mouth to an unconscious person. Call a physician.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Sand, foam, dry powder or CO₂. Keep fire exposed containers cool by spraying with water.

UNSUITABLE EXTINGUISHING MEDIA: High-pressure water jet.

FIRE FIGHTING PROTECTIVE EQUIPMENT: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

FURTHER INFORMATION: Burning produces obnoxious and toxic fumes. Carbon Oxides.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PECAUTIONS: Eliminate sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages.

MATERIAL SAFETY DATA SHEET

ENVIRONMENTAL PRECAUTIONS: Prevent entry into drains. Do not contaminate surface water. Avoid subsoil penetration. **METHODS OF CLEANING UP:** Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Transfer to a container for disposal or recovery.

7. HANDLING AND STORAGE

HANDLING: Irritant. Avoid contact with skin and eyes. Sensitizing. Keep away from sources of ignition – No Smoking. Avoid inhalation of high concentration of vapors. Use only in well ventilated areas. The vapor is heavier than air; beware of pits and confined spaces.

STORAGE: Keep only in original container. Store in cool, dry place away from heat, sparks, flame and direct sunlight. Keep container closed to prevent water absorption and contamination. Keep away from sources of ignition – No Smoking.

IMPORTANT:

STORAGE TEMPERATURE: Preferably not exceeding 25 °C.

INDUSTRIAL HYGIENE PRACTICES: Wash face and hands thoroughly with the soap and water after use and before eating, drinking, smoking or applying cosmetics.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS:

Triethylenetetramine CAS No:112-24-3

ENGINEERING MEASURES: No special precautions required.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORS: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. In the event of formation of particularly high levels of vapor a self-contained breathing apparatus may be appropriate.

EYE PROTECTION: Safety glasses or chemical splash goggles.

GLOVES: Wear suitable gloves. PVA/Polyethylene laminate and supported PVA gloves offer the best protection. Gloves should be changed regularly and if excessive exposure has occurred.

OTHER: Wear suitable protective clothing.

PROTECTIVE MEASURES: Do not breathe vapours/dust. Keep away from sources of ignition – No smoking. Avoid contact with skin, eye & clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLOUR:	Clear
ODOUR:	Amine-like
PH	Approx 12 at 20 °C
BOILING POINT:	>200 °C
THERMAL DECOMPOSITION:	>200 °C
FLASH POINT:	152 °C DIN 52758
VAPOUR PRESSURE:	0.1 Pa at 20 °C
DENSITY:	1 – 1.05 g/cm ³
WATER SOLUBILITY:	at 20 °C Note miscible
MISCIBILITY WITH WATER:	Miscible
VISCOSITY:	365 - 460 mPa.s at 25 °C

MATERIAL SAFETY DATA SHEET

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat and ignition sources; contamination.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents. Strong acids and strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, Nitrogen Oxides. Burning produces obnoxious and toxic fumes

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: LD50 Rat Dose 4500 mg/kg

ACUTE DERMAL TOXICITY: LD50 Rat Dose >2150 mg/kg

EYE IRRITATION: Risk of serious damage to eyes. Rabbit. Method OECD 405

SKIN IRRITATION: Irritating. Rabbit. Method OECD 404. Dermal.

SENSITISATION: Causes sensitisation. Guinea Pig. Dermal

12. ECOLOGICAL INFORMATION

EXOTOXICITY EFFECTS:

FURTHER INFORMATION ON ECOLOGY: Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

PRODUCT: Waste Key Number 070204. Must be incinerated, when in compliance with local regulations.

PACKAGING: Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14. TRANSPORTATION

LAND TRANSPORT:

ADR

REGULATION: Not dangerous goods – full transport

RID:

REGULATION: Not dangerous goods – full transport

AIR TRANSPORT –

IATA CLASS:

REGULATION Not dangerous goods – full transport

OCEAN TRANSPORT –

IMDG CLASS:

REGULATION Not dangerous goods – full transport

15. REGULATORY INFORMATION

EC REGULATIONS –

EINECS: all chemical listed

MATERIAL SAFETY DATA SHEET

EEC Classification: IRRITANT



Risk Phrases: R38 Irritating to skin
R41 Risk of serious eye damage.
R43 May cause sensitization by skin contact.

Safety Phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/3739. Wear suitable protective clothing, gloves, and eye/face protection.

HAZARDOUS COMPONENTS WHICH MUST BE LISTED ON THE LABEL: Triethylenetetramine

NATIONAL LEGISLATION:

NOTIFICATION STATUS:	EINECS	Not Required
	TSCA	Yes

16. ADDITIONAL INFORMATION

This data sheet was prepared in accordance with Directive 91/155/EEC.

The above information has been gathered from reliable sources and is believed to be correct. However, the information is provided without any warranty, either expressed or implied. MetPrep Ltd shall not be held liable for any damage resulting from the handling of or contact with the above product.