

MATERIAL SAFETY DATA SHEET

PART NUMBER 11 10 66

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

Company Metprep Limited

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PRODUCT EPO-FLO HARDENER

SECTION 2

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature

Aliphatic amine adduct

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration[%]
Isophorone diamine EC-No: 220-666-8	2855-13-2	С	R21/22 R34 R43 R52/53	39.00 – 51.00
Trimethylhexamethylenediam i	25620-58-0	С	R22 R34 R43 R52/53	14.00 - 28.00

SECTION 3 SUBSTANCE HAZARD IDENTIFICATION

Harmful in contact with skin and if swallowed May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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SECTION 4 FIRST AID MEASURES

Inhalation Move to fresh air.

Call a physician immediately.

Eye contact Rinse immediately with plenty of water for at least 15 minutes.

If eye irritation persists, consult a specialist.

Skin contact Wash off immediately with soap and plenty of water.

If skin irritation persists, call a doctor

Ingestion Do not induce vomiting

Immediately give plenty of water (if possible charcoal slurry)

Obtain medical attention

SECTION 5

FIRE FIGHTING MEASURES

Suitable extinguishing Water spray.

Media Dry powder.

Carbon dioxide (C02)

Foam.

Extinguishing media which

Must not be used for safety

reasons

High Volume water jet

Special protective

Equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Further information Burning produces obnoxious and toxic fumes.

Carbon oxides & Nitrogen oxides

SECTION 6

ACCIDENTAL RELEASE MEASURES

Personal precautions Keep away from sources of ignition - No smoking. Do not breath

vapours/dust. Avoid contact with skin, eyes and clothing.

Environmental precautions Prevent product from entering drains. Do not

contaminate surface water. Avoid subsoil penetration.

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous

waste.

SECTION 7

HANDLING AND STORAGE

Handling

Advice on safe handling Provide sufficient air exchange and/or exhaust in work rooms.

Handle and open container with care.

Storage

Further information on Keep away from food, drink and animal feeding stuffs. Keep

storage conditions container tightly closed. Keepattemperatures between 2 and 40 "C.



EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering measures

No special precautions required.

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory

equipment.

Filter type AX-P2 (organic vapours, particles)

Eye protection Tightly fitting safety goggles.

Hand protection Material of gloves for long term application (BTT>480 min):

Butyl rubber

Ethyl Vinyl Alcohol Laminate (EVAL)

Material of gloves for short term/splash application (10

min<BTT<480 min): Nitride rubber Neoprene

rubber

Use gloves approved to relevant standards e.g. EN 374

(Europe), F739 (US).

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Additional information can be found for instance at

www.gisbau.de

Skin and body protection Protective suit. Safety Shoed

Hygiene measures Keep away from food, drink and animal feeding stuffs.

Wash hands before breaks and immediately after handling the product.

Protective measures Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothing.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Form liquid Colour light yellow clear

Odour amine-like

pH approx at (20°C) 1:1 inwater

 $\begin{array}{ll} \mbox{Boiling point} & >\!\!200\ ^{\circ}\mbox{C} \\ \mbox{Thermal decomposition Flash point} & >\!\!200\ ^{\circ}\mbox{C} \end{array}$

Flash point >120 °C

Method: DIN 51758

Vapour pressure < 6 Pa at 20 °C
Density 0.95 g/cm3 at 25°C

Water solubility at 20°C Note: partly soluble

Miscibility with water immiscible at 20°C Viscosity, dynamic 150 mPa.s at 25°C

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STABILITY AND REACTIVITY PROPERTIES

Conditions to avoid Note: Take necessary action to avoid static electricity discharge.

Materials to avoid Strong acids and strong bases.

Strong oxidizing agents.

Products

Hazardous decomposition Carbon oxides. Burning produces obnoxious and toxic fumes.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute oral toxicity LD50 rat Dose 950 mg/kg

corrosive, rabbit Eye irritation

Skin irritation corrosive, rabbit, dermal

Sensitization Causes sensitization

> Quinea pig Dermal

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity effects

Additional ecological Avoid subsoil penetration.

Information Prevent product from entering the drains

Do note contaminate surface water.

SECTION 13 DISPOSAL CONSIDERATIONS

Product Waste key number 070204

Must be incinerated, when in compliance with local regulations

Container Empty containers can be land filled after cleaning, when in

Compliance with Environmental Protection (duty of care)

Regulations 1991.



TRANSPORT INFORMATION

Land Transport

ADR:

Un-No: 2289
Class: 8
Classification code C7
Packaging Group III
Risk No: 80
ADR/RID- Labels 8

Proper Shipping Name: Isophoronediamine Solution

Sea Transport

IMDG

UN-No: 2289
Class: 8
Packaging group III
ADR/RID Labels 8

MFAG:

EmS: F-A-S-B

Proper shipping name Isophoronediamine Solution

Air Transport

IATA-DGR

UN/ID No: UN2289 Class: 8 Packaging Group III

Packing instruction

(Cargo aircraft)

Max. Qty/Pack 60.00L

(999.00 = No Limit)

Packing Instruction 818

(passenger aircraft)

Max. Qty/Pack) 5.00L ADR/RID Labels 8

Proper shipping name: Isophoronediamine Solution

820



REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s): C Corrosive

R-phrase(s) R21/22 Harmful in contact with skin and 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-phrase(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.

S61 Avoid release to the environment. Refer to special

Instructions/safety data sheets.

Hazardous components Which must be listed on the isophorone diamine EC-No: 220-666-8

label:

SECTION 16 OTHER INFORMATION

R21/22 Harmful in contact with skin and if swallowed. Harmful if swallowed.

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.

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