

**MATERIAL SAFETY DATA SHEET****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY UNDERTAKING**

Product code Epochem150
 Product type/use Descaler

Supplier Epoxy oilserv Ltd

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation Description

Blend of Naptha and Additive

| Name | CAS | Proportion | Classification |
|---|-----------|------------|----------------|
| Hydrochloric Acid | 7647-01-1 | 20-40% | C,3,4,37 |
| Components which do not contribute To the classification of product | | | |
| Legend T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, Ik=No classification required, E=Explosive, O=Oxidizing, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Dang. to the environment, Mut=Genetoxic, Sens=Sensitive, Carc=Carcinogen, Repr=Causes birth defects | | | |

3. HAZARDS IDENTIFICATION

Hazardous substance

Dangerous goods

Hazard classification according to criteria of NOHSC

Dangerous goods classification

Liquid.

Very soluble in water.

Causes burns.

Irritating to eyes and respiratory system.



Environmental Hazards

Toxic to aquatic organism. May cause long term adverse effects in aquatic environment.

4. FIRST AID MEASURES

Seek medical attention if any signs of unconsciousness or discomfort develop. Show this safety data sheet to the physician present.

Inhalation

In the unlikely event of dizziness or nausea, remove casualty to fresh air. If symptoms persist, obtain medical attention



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Skin

Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention

Eye

Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

Ingestion

DO NOT INDUCE VOMITING. Protect airways if vomiting begins. Give nothing by mouth. If breathing but unconscious, place in recovery position. If breathing has stopped, apply artificial respiration. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

5. FIRE FIGHTING MEASURES

PROPER FIREFIGHTING EQUIPMENT

Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARDS

Non-flammable. Heating may cause the containers to explode. Fire generates toxic and corrosive gases.

PERSONAL PROTECTION WHEN FIREFIGHTING

Use self-contained breathing apparatus if substance is involved in fire.

OTHER INFORMATION

Prevent release of fire control water to surface water or ground water

6 ACCIDENTAL RELEASE MEASURES

SAFETY MEASUREMENTS TO PROTECT PERSONS

Use personal protective equipment as specified.

SAFETY MEASUREMENTS TO PROTECT ENVIRONMENT

Avoid release of significant quantities of the product to water sources, sewers or the environment in general.

PROPER METHODS FOR DAMAGE LIMITATION AND CLEANUP

Remove spill with absorbent materials and/or mechanical equipment, and dispose of in accordance with . Flush with large amounts of water to clean the area. Ventilate well.

OTHER INFORMATION

Small amounts can be flushed to sea or drain with large amounts of water.



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7 Handling and Storage

HANDLING ADVICE

Use personal protective equipment as specified. Avoid contact with skin and eyes. Eyewash facilities should be available at the workplace. STORAGE-3/9/49 Keep only in the original container in a cool, well ventilated place.

8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE CONTROL

Provide eyewash facilities for quick and effective eye-flushing. Avoid contact with skin and eyes.

RESP. PROTECTION

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

EYE PROTECTION

Wear eye protection if there is a possibility of direct contact or splashes.

HAND PROTECTION

Use protective gloves of impervious material, e.g. rubber/plastic.

SKIN PROTECTION

Protective clothing should be worn if there is a possibility of direct contact or splashes.



9. Physical and Chemical properties

| | |
|----------------------------|------------------------|
| Form | Liquid. |
| Colour | Pale yellow. |
| Odour | Hydrochloric acid. |
| Solubility | Very soluble in water. |
| Melting point/range | -30 °C @ 20 °C |
| Density | 1.16 @ 20 °C |
| Solubility in water | 100 % |
| Vapor pressure | 105.5 @ 20 °C |
| Flash point | N/A |
| pH | |
| konsentrat: | <1.5Molecular |
| Smelling limits | lo-hi5 ppm |
| Rel. vapor density (air=1) | 1.26 |
| Rel. evap. Velocity | N/E |
| Air reactive | |
| Water reactive | |

10. Stability and Reactivity

STABILITY

Stable under normal conditions.

Avoid excessive heat for prolonged periods of time.

MATERIALS TO AVOID

Aluminium. ZincZink alloys Reacts with alkalies and amines and generates heat.

HAZARDOUS DECOMPOSITION PRODUCTS

No decomposition if stored and used as directed. Combustion produces corrosive fumes.

OTHER INFORMATION

Do not allow to freeze. Avoid intense heating.

11. Basis for Assessment

GENERAL

Repeated or prolonged exposure may cause irritation to eyes and skin.

Spray may cause temporary irritation to the respiratory system.



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INHALATION

Severe irritation in nose and throat.

SKIN CONTACT

Causes burns.

EYE CONTACT

May cause permanent damage to the cornea, impaired vision and blindness.

INGESTION

Ingestion causes burns to the upper digestive and respiratory tracts.

CANCER

Carcinogenic properties are not known

12. Disposal considerations

MOBILITY

Dissolves in water .

BREAKDOWN

The product dissolves and is rapidly diluted if released to water. Contains no substances known to be hazardous to the environment or not degradable in waste-water treatment plants.

ACCUMULATION

Does not bioaccumulate.

ECOTOXICITY"

In general, this cleaning agent poses little danger to the environment, its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

"OTHER INFORMATION

Discharge to water will acidify water, which may harm fish and other aquatic organisms near the discharge point.

13. Transport Information

GENERAL

Goods classified for transport: YES



| | |
|-------------------------------------|-----------------------------|
| UN-no.: | 1789 |
| PROPER SHIPPING NAME: | Hydrochloric acid, solution |
| Flash point: | N/A |
| Packing group: | III |
| Class: | 8 |
| Item: | 5b |
| Haz. id. no.: | 80 |
| ERI-Card: | 8-03 |
| TREM-Card | :50 |
| Label type: | 8 |
| Label colour: | Black./White. |
| Other label requirements:-IMDG-CODE | |
| Class: | 8 |
| Subsidiary risk: | - |
| Marine pollutant: | no |
| EMS: | 8-08 |
| MFAG: | 700Page |
| Number: | 8183 |
| Label type: | 8 |
| Label colour: | Black./White. |
| IATA-DGR | |
| Class: | 8 |
| Subsidiary risk: | - |
| Labeltype: | 8 |
| Labelcolour: | Black./White. |
| Aircraft Cat.: | Cargo aircraft |
| Other label requirements | :- |



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CAOUS DOTClass: 8
Marine pollutant: NORQ:N/E
Label type: 8
Label colour :Black./White.

14. Regulatory Information

Classification

Corrosive

COMPOSITION Hydrochloric acid (20–40)

R-PHRASES

R-34 Causes burns.

R-37 Irritating to respiratory system.

S-PHRASES S-26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S-45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

REFERENCES

Classified according to European directive on classification of dangerous preparations 90/492/EEC. OTHER

INFORMATION

The product is labelled in accordance with EU directive 88/379

15. OTHER INFORMATION - Poisons Schedule

The safety data sheet has been prepared on the basis of information given by Epoxy oilserv Ltd

Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification.



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The intent of this safety data sheet is to give a description of the product with regard to safe storage, handling and use. Information given applies only to the product itself, and not in combination with other products or in any processed form, unless this is specified in the text.

We believe that all information in this safety data sheet (which replaces all previous versions) was correct at the date of issue. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.