



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : E 20671  
Product Name : EHRlich'S REAGENT

#### Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hydrochloric acid solution .

#### Hazardous ingredients :

Name according to EC Directives : Hydrochloric acid

Hazard symbols : C R-phrases : 34-37

EC-Index-No. : 017-002-01X Causes burns irritating to respiratory system

CAS-No : 7647-01-0 Content :-> 10-25 %

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### 3. HAZARDS IDENTIFICATION : Irritating to eyes, respiratory system and skin.

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### 4. FIRST AID MEASURES :After skin contact: Wash off with plenty of water . Remove contaminated clothing.

After eye contact : rinse out with plenty of water with the eyelid held wide open.

After inhalation: fresh air.



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After swallowing : Immediately make victim drink plenty of water(if necessary several litres ). Summon doctor.

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### 5. FIRE – FIGHTING MEASURES:

Suitable extinguishing media : Water.

Special risks : Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus

**Other information** : Non- combustible. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

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### 6. ACCIDENTAL RELEASE MEASURES

Person -related precautionary measures : Do not inhale vapours/aerosols. Avoid substance contact. Environmental –protection measures : Do not allow to enter sewerage system. Procedures for cleaning/absorption: Render harmless : Neutralize with diluted sodiumhydroxide solution .Take up with liquid-absorbent material (e.g. Chemizorb @) . Forward for disposal. Clean up effected area.

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**7. HANDLING AND STORAGE** : Handling : No further requirements.

Storage : Tightly closed . At + 15° C to + 25° C.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Required when vapours/aerosols are generated.

Eye protection : Required

Hand protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled . The resistance of the protective clothing to chemicals should be ascertained with the respective supplier

**Industrial hygiene** : Change contaminated clothing. Application of skin – protective barrier cream recommended. Wash hands after working with substance.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid  
Colour : Light yellow  
Odour : Odourless  
pH value (20°C) : 1  
Melting temperature : Not available  
Boiling temperature : Not available  
Ignition temperature : Not available  
Flash point : Not available  
Explosion limits lower : Not available  
Upper : Not available  
Relative vapour density : Not available  
Density (20°C) : 1.20 g/cm<sup>3</sup>  
Solubility in water(20°C) : Soluble

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### 10. STABILITY AND REACTIVITY

Conditions to be avoided : Not known to date.

Substance to be avoided : Metals (Formation of : hydrogen (risk of explosion!).

Exothermic reaction with : strong alkalis, amines, conc. Sulfuric acid.

Hazardous decomposition products : In the event of fire : HCl , chlorine.

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Quantitative data on the toxicity of this product are not available.

Subacute to chronic toxicity : An embryotoxic effect need not be feared when the threshold limit value is observed.

Further toxicological information

After inhalation of vapours : Mucosal irritations, coughing and dyspnoea.

After skin contact : Irritant and caustic effects.

After eye contact : Irritant and caustic effects.

After swallowing : Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Further data: The product should be handled with the care usual when dealing with chemicals.

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### 12. ECOLOGICAL INFORMATION

**Ecotoxic effects** : Quantitative data on the ecological effect of this product are not available. The following applies to HCl in general : Harmful effect on aquatic organisms. Harmful effect on aquatic organisms . Harmful effect due to pH shift.

Biological effects: hydrochloric acid (including such due to reaction ) : lethal for fish as from 25 mg/l ; *Leuciscus idus* LC<sub>50</sub> : 862 mg/l (IN-solution).

Harmful effects begin at : plants 6 mg/l . Does not cause biological oxygen deficit.

**Biological effects:** High aquatic toxicity . Hazardous for drinking water supplies.

Toxic for : fish LC<sub>50</sub> : 25 mg/l; *Daphnia* toxicity : *Daphnia* LC<sub>50</sub> : >1 mg/l :

**Further ecologic data** : Do not allow to enter waters, waste water, or soil.

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### 13. DISPOSAL METHOD

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC Member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

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### 14. TRANSPORT INFORMATION

GGVS/GGVE class : 8      Number and letter : 5 b

Transport over land      ADR/RID class : 8      Number and letter : 5 b  
ADR/RID & GGVS/GGVE      Name of materia l : 1789 EHRlich'S REAGENT

Sea transport IMDG :IMDG class : 8      UN-No. : 1789      Packaging group : 11  
EMS : 8-03      MFAG : 700  
Correct technical name : EHRlich'S REAGENT

Air transport : ICAO/IATA class: 8      UN/ID-No. : 1789      Packaging group : 11  
ICAO-TI & IATA-DGR      Correct technical name : EHRlich'S REAGENT

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### 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xi      Irritant  
R-phrases : 36/37/38      Irritating to eyes, respiratory system and skin.  
S-phrases : -----  
Water pollution class : 1 (slightly polluting substance) (own classification)

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### **16. OTHER INFORMATION**

Reason for alteration

Addition in the chapter toxicology.

General update.

The information contained here in is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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