



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : D 11529
Product Name : DIETHYL ETHER L.R.

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Calomel
CAS-No : 60-29-7
Ec-Index No. : 603-022-00-4
Molar Mass :
EC-No. : 200-467-2
Molecular Formula : C₄H₁₀O

3. HAZARDS INDEX : Extremely flammable. May form explosive peroxides.

4. FIRST AID MEASURES

After inhalation : Fresh air. If necessary, apply mouth-to-mouth resuscitation or mechanical ventilation. Keep airways free.

After skin contact : Wash off with plenty of water. Remove contaminated clothing.



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After eye contact : rinse out with plenty of water for at least 10 minutes
with the eyelid held wide open. Summon eye specialist.

After swallowing : Avoid vomiting. Summon doctor.

Laxative: Paraffin Oil (3 ml/kg). Keep airways free.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Foam, powder.

Fire extinguisher : powder, carbon dioxide.

Special risks : Combustible. Vapours heavier than air. Formation of explosible mixtures possible with air. Keep away from sources of ignition.

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

Other information : Take measures to prevent electro- static charging. Beware of backfiring.

6. ACCIDENTAL RELEASE MEASURES

Person - related precautionary measures : Do not inhale vapours/aerosols. Ensure supply of fresh air in enclosed rooms.

Procedure for cleaning/absorption : Take up with liquid-absorbent material (e.g. Chemisorb). Forward for disposal. Clean up affected area.

Environmental-protection measures : Do not allow to enter seweragesystem; risk of explosion.



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7. HANDLING AND STORAGE

Handling-Take measure to prevent electrostatic charging.

Storage- Tightly closed. In a well-ventilated place. Keep away from sources of ignition and heat. At +15° C to 25° C. Protected from light.

Protected from air.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 : Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Colourless
Odour	:	Characteristic
pH value	:	Not available
Viscosity dynamic (20° C)	:	0.23 mPa s
Melting temperature	:	116.3° C



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Boiling temperature (1013 mbar) : 34.6 ° C
Ignition temperature : 170 ° C
Flash Point : -40 ° C
Explosion limit lower : 1.7 Vol %
 upper : 36 Vol %
Vapour pressure (20 ° C) : 587 hPa
Relative vapour density : Not available
Density (20 ° C) : 0.71 g/cm³
Solubility in Water (20 ° C) : 69 gm/lt.
Log P(oct) : 0.77

10. STABILITY AND REACTIVITY

Conditions to be avoided : Heating

Substances to be avoided : halogens, halogen-halogen compounds, nonmetals, nonmetallic oxyhalides, strong oxidizing agents (i.a. CrO₃, halogen oxides, peroxy compounds, perchloric acid, perchlorates, nitric acid, nitrating acid, oxygen, ozone), chromyl chloride, turpentine oils or turpentine substitutes, nitrates, metallic chlorides.

Hazardous decomposition products : peroxides.

Stabilizer : 2.6-di-tert.-butyl-4-methylphenol (BHT)

Further information : light-sensitive; sensitive to air, unsuitable working materials; zinc, rubber. Explosible with air in a vaporous/gaseous state.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity : LD₅₀ (oral, rat) : 1215 mg/Kg :

LD₅₀ (inhalation, rat) : 73000 ppm (V)/2 h

LDLo (oral, rat) : 260 mg/Kg : Specific symptoms in animal studies : Eye irritation test (rabbit): moderate irritant effect.

Subacute to chronic toxicity : The possible of an embryo toxic effect has not yet been fully assessed.

Further toxicological information :

After swallowing and inhalation : mucosal irritation, euphoria, ataxia (impaired locomotor coordination), inebriation, unconsciousness, coma. Risk of aspiration upon vomiting. Cannot be excluded : respiratory paralysis, death.

After long-term exposure to the chemical : lack of appetite, constipation, allergic reactions, dermatitis. Degreasing effect on the skin, possible followed by secondary inflammation.

12. ECOLOGICAL INFORMATION

Biologic degradation : Biological degradability : good

Behavior in environmental compartments : Distribution :log P(oct) : 0.77 Evaluation number (FRG)(fish) : 2.6 Evaluation number (FRG)(mammal) : 1.0 Low bioaccumulation potential.

Ecotoxic effects : Biological effects : Toxic for aquatic organisms.

Substance floats on the water surface. Risk of formation of explosive vapours above water surface.

When used properly, no impairments in the function of waste-water-treatment plants are to be expected. Fish toxicity : L.idus LC₅₀ : 2840mg/lt.

Daphnia toxicity : Daphina LC₅₀ : 100 mg/lt.



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Further ecologic data : ThOD : 2.60 g/g

No ecological problems are to be expected when the product is handled
and used with due care and attention.

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.

14. TRANSPORT INFORMATION

GGVS/GGVE class : 3 Number and letter : 2a

Transport over land ADR/RID class : 3 Number and letter : 2a

ADR/RID & GGVS/GGVE : Name of material : 1155 DIETHYL ETHER (ETHYL ETHER)

Sea Transport IMDG : IMDG class : 3.1 UN No. : 1155 Packing group : I

Ems : 3-07 MFAG : 330

Correct Technical Name : DIETHYL ETHER

Air Transport ICAO-TI

and IATA-DGR : ICAO/IATA class : 3 UN No. : 1155

Packaging group I

Correct Technical Name : DIETHYL ETHER



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15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol : F+ Extremely flammable

R-phrases : 12-19 Extremely flammable. May form explosive peroxides.

S-phrases : 9-16-29-33 Keep container in a well-ventilated place. Keep away from

sources of ignition-No smoking. Do not empty into drains.

Take precautionary measures against static discharges.

EC-No. : 200-467-2 EC label

Water pollution class : 1 (slightly polluting substance)

16. OTHER INFORMATION

Reason for alteration

Change in product name.

The information contained herein is based on the present state of our knowledge.

It characterises the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properties of the product.
