



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : K 102790
Product Name : KARL FISCHER 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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular compound of iodine and sulphur dioxide in organic solvents.

Hazardous ingredients :

Name according to EC Directives : Ethylene Glycol Mono methyl Ether

Hazardous symbols : T R-phrases : 60-61-10-20/21/22

EC-Index-No. : 603-011-00-4 May impair fertility. May cause harm to the unborn child. Flammable. Also harmful by inhalation, in contact with skin and if swallowed.

CAS-No : 108-86-4 Content : z 50 %

3. HAZARDS IDENTIFICATION : May impair fertility. May cause harm to the unborn child. Also harmful by inhalation, in contact with skin and if swallowed.

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

4. FIRST AID MEASURES : After inhalation: Fresh air. Summon doctor.
After skin contact : Wash off with plenty of water.
Remove contaminated clothing.

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

After swallowing : Make victim drink plenty of water. induce vomiting.
Immediately summon doctor.



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5. FIRE-FIGHTING MEASURES : Suitable extinguishing media : Foam, Powder, water, CO₂.

Special risks : Combustible. Formation of hazardous combustion gases or vapours possible in event of fire.

The following may develop in event of fire : Sulphur Dioxide, Iodine.

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

Other information : Cool containers with water. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures : Avoid substance contact.

Do not inhale vapours.

Environmental-protection measures :

Do not allow to enter sewerage system.

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

7. HANDLING AND STORAGE :

Handling : No further requirements.

Storage : Tightly closed. In a well-ventilated place.

Accessible only for authorized persons. At +15° C to +25° C.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory protection : Required when dusts 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.

Other protective equipment: Suitable protective clothing.

Industrial hygiene : Change contaminated clothing. Apply skin protective barrier cream recommended. Wash hands after working with substance.



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9. PHYSICAL & CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Dark brown
Odour	:	Pungent
pH value (20 ° C)	:	4.5
Melting temperature	:	Not available
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash Point	:	~ 60 ° C
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available
Density (20 ° C)	:	1.16 gm/cm ³
Solubility in Water (20 ° C)	:	Soluble

10. STABILITY & REACTIVITY : Conditions to be avoided : Strong heating

Substances to be avoided : Metals, light metals, semimetals, nonmetals, alkalis, halogen, fire-promoting substances, solvents, strong oxidizing agent.

Hazardous decomposition products : Peroxides

Further information : Partial component : hygroscopic, sublimable. Release of toxic vapours/gases on heating, incompatible with various metals, light metals, various plastics.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LC₅₀ (oral, rat): 2370 mg/kg(chief component).

Sub acute to chronic toxicity : The following statements refer to individual components of the preparation : The information available to us suggests that the risk of an embryo-toxic effect must be considered probable. Pregnant women should not be exposed to the product. There is sufficient evidence to assume that reproductive performance in man is impaired. These properties have been clearly demonstrated in animal experiments. Based on clear evidence from animal experiments there is a high risk of teratogenic effects. Pregnant women should not be exposed to the product.

Further toxicological information : Property that must be anticipated on the basis of the components of the preparation :

After inhalation : Strong irritant effect.

After skin contact : Strong irritant effect. Danger of skin absorption.

After eye contact : Strong irritant effect.

Systemic effects: After absorption of toxic quantities : CNS disorders, narcosis, dizziness, tremor.

Further data : Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.



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12. ECOLOGICAL INFORMATION : Ecotoxic effects : Forms toxic mixtures in water, dilution measures not withstanding. Hazard for drinking water supplies.
Biological effects : Toxic for aquatic organisms.
Further ecologic data : Do not allow to enter waters, waste water, or soil !

13. DISPOSAL METHOD : 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 house-hold waste or recycled.

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. Approved waste disposal companies which will advise you on how to dispose of special waste.

14. TRANSPORT INFORMATION

Transport over land

ADR/RID & GGVS/GGVE : GGVS/GGVE class : 3 Number and letter : 31c
ADR/RID class : 3 Number and letter : 31c
Name of material : KARL FISCHER REAGENT

Sea Transport IMDG : IMDG class : 3.3 UN No. : 1993 Packing group : III
Ems : 3-07 MFAG : 4.2
Correct Technical Name : KARL FISCHER REAGENT

Air Transport ICAO-TI
& IATA-DGR : ICAO/IATA class : 3 UN No. : 1993
Packaging group : III
Correct Technical Name : KARL FISCHER REAGENT

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : T Toxic

R-phrases : 60-61-10-20/21/22 May impair fertility. May cause harm to the unborn child. Flammable. Also harmful by inhalation, in contact with skin and if swallowed.

S-phrases : 53-36/37-45 Avoid exposure-obtain special instructions before use. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately(show the label where possible).

Contains : Ethylene Glycol Mono methyl Ether

Water pollution class : 1 (slightly polluting substance)



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16. OTHER INFORMATION

Reason for alteration :

General update.

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

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