



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : H 10529
Product Name : HYDROFLUORIC ACID 40%

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

Aqueous solution

Synonyms : Hydrofluoric Acid Solution

Hazardous ingredients :

Name according to EC Directives : Hydrofluoric Acid

Hazard symbols : T+ C R-phrases : 26/27/28-35

EC-Index No. : 009-003-00-1 Very toxic by inhalation, in contact with skin
and if swallowed. Causes severe burns.

CAS-No : 7664-39-3 Content : 40 % Min.

3. HAZARDS INDEX : Very toxic by inhalation, in contact with skin and if
swallowed. Causes severe burns.

4. FIRST AID MEASURES

First-aid personnel : Ensure self-protection!

After inhalation : Fresh air. Summon doctor. Keep airways free.



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After skin contact : wash off with plenty of water. Rinse off with polyethylene glycol 400. Immediately remove contaminated clothing. If necessary, apply compresses thoroughly moistened with 10 % Calcium Gluconate suspension.

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

After swallowing: immediately make victim drink plenty of water with admixture of Calcium (Gluconate,lactate). Caution if victim vomits.

Risk of perforation!

Subsequently administer : Calcium Gluconate. Sodium Sulphate (1 tablespoon 1/4 1 water). Immediately summon doctor.

5. FIRE-FIGHTING MEASURES : Suitable extinguishing media: In adaption to materials stored in the immediate neighbourhood.

Special risks : Hydrogen may form upon contact with metals (danger of explosion).The following may develop in event of fire: Hydrogen Fluoride

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

Other information : Non-combustible. Cool container with spray water from a safe distance. 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: Avoid substance contact. Do not
inhale vapours/aerosols.

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

Clean up affected area.

Environmental-protection measures :

Do not allow to enter sewerage system.

Additional notes: Render harmless:Treat with a mixture mixture of lime
in Sodium Carbonate solution (precipitation as Calcium Fluoride).

7. HANDLING AND STORAGE

Handling - No further requirements.

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

Protected from light. In plastic containers.

Storage temperature : No restrictions.

Accessible only for authorized persons.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: required when vapours/aerosols are generated.

Filter B (acc. to DIN 3181) for inorganic gases and vapours.

Eye Protection : required

Hand Protection : required

Other protective equipment :

Acid-resistant protective clothing. Rubber boots.

Industrial hygiene : Immediately change contaminated clothing. Apply
skin-protective barrier cream. Wash hands and face after working with
substance. Under no circumstances eat or drink at workplace.



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After eye contact : Burns. Risk of blindness!

After swallowing : Burns in oesophagus and stomach.

Possible symptoms :

Strong pain (risk of perforation!). bloody vomiting, spasms.

Systemic effects : Collapse.

Lethal effect after absorption. Latency time until onset of action.

Counter measurements must be implemented at once.

Further data : Further hazardous properties cannot be excluded. This substance should be handled with particular care.

12. ECOLOGICAL INFORMATION : Behaviour in environmental compartments :

Evaluation number(FRG)(bacteria): 3.2; Evaluation number

(FRG)(fish): 3.2 (undrous substance) ; Evaluation number

(FRG)(mammal): 4 (unhydrous substance) ;

Ecotoxic effects : Biological effects : Toxic for aquatic organisms.

Endangers drinking-water supplies if allowed to enter soil or water.

Harmful effect due to pH shift. Forms toxic and corrosive mixtures with water even if diluted. Toxic effect on fish and plankton.

fish LC₀ : <60 mg/lit. (unhydrous substance);

Further ecologic data :

The following applies to HF : biological effects : fish : toxic as from 40-60 mg/lit.; algae; Elodea densa toxic as from 8 mg/lit. Harmful effect on aquatic organisms due to pH shift. Hazard for drinking water.

Do not allow to enter waters, waste water, or soil!

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.



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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

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class : 8 Number and letter : 7b
ADR/RID class : 8 Number and letter : 7b
Name of material : HYDROFLUORIC ACID

Sea Transport IMDG : IMDG class : 8 UN No. : 1790 Packing group : II
Ems : 8-03 MFAG : 750
Correct Technical Name : HYDROFLUORIC ACID

Air Transport ICAO-TI
and IATA-DGR :

ICAO/IATA class : 8 UN No. : 1790
Packaging group : II
Correct Technical Name : HYDROFLUORIC ACID

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : T+ Very Toxic

R-phrases : 26/27/28-35 Very toxic by inhalation, in contact with skin
and if swallowed. Causes severe burns.



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S-phrases : 7/9-26-28-36/37/39-45

Keep container tightly closed and in a well-ventilated place. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing, gloves and eye/ face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Water pollution class : 1 (slightly polluting substance)

16. OTHER INFORMATION

Reason for alteration

Change in storage temperature.

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.
