



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : S 13229
Product Name : SODIUM FLUORIDE

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

CAS-No : 7681-49-4 Ec-Index No. : 009-004-00-7
Molar Mass : 41.99 EC-No. : 231-667-8
Molecular Formula : FNa

3. HAZARDS INDEX : Toxic if swallowed. Contact with acids liberates very toxic gas.
Irritating to eyes and skin.

4. FIRST AID MEASURES : After inhalation : Fresh air. If breathing stops : Immediately apply mechanical

ventilation, if necessary oxygen mask. Immediately summon doctor.
After skin contact : Wash off with plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing.
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 : Make victim drink plenty of water induce vomiting, summon doctor. Clean skin of vomit.

5. FIRE-FIGHTING MEASURES : Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood.
Special risks : Development of hazardous combustion gases or vapours possible in the event of fire.

6. ACCIDENTAL RELEASE MEASURES :

Person - related precautionary measures : Avoid substance contact.
Environmental-protection measures : Do not allow to enter sewerage system.
Procedures for cleaning/absorption : Take up dry. Forward for disposal.
Clean up affected area.

7. HANDLING AND STORAGE : Handling - Store protected from solvents.
Storage - Tightly closed in a well-ventilated place. Accessible only for authorized persons.
Storage temperature : No restrictions.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Specific control parameter :
MAK (max. workplace conc.) Fluorides (as Fluorine) : 2.5 mg/m³



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Respiratory protection : Required when dusts are generated.

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Eye Protection : Required
Hand Protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration & 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 : 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Odourless
pH value at 40 g/l H ₂ O (20° C)	:	~ 10.2
Melting temperature	:	990° C
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash Point	:	Not applicable
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available
Density (20° C)	:	2.8 gm/cm ³
Solubility in Water (20° C)	:	40 gm/l.

10. STABILITY AND REACTIVITY

Conditions to be avoided : No information available
Substances to be avoided : Acids
Formation of : Hydrogen fluoride.
Hazardous decomposition products : Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

Acute Toxicity : LD₅₀ (oral, rat) : 52 mg/Kg :
LDLo (oral, human) : 75 mg/kg
Further toxicological information :
After inhalation of dust : Mucosal irritations, coughing, respiratory arrest.
After skin contact : strong irritant effect. Cause poorly healing wounds.
After eye contact : strong irritant effect. Risk of corneal clouding.
After swallowing : Burns of mouth, oesophagus, gastrointestinal tract, pain,
Systemic effects : Cardiac dysrhythmia, respiratory arrest, death.

Further data : Further hazardous properties cannot be excluded.



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12. ECOLOGICAL INFORMATION : Ecotoxic effects : The following applies to inorganic fluorides in general :

biological effects : fish : *L. idus* LC₅₀ : 660 mg/l.; bacteria; *Ps. putida* toxic as

from 231 mg/l.; algae : *Sc. quadricauda* toxic as from 249 mg/l.; protozoa : *E. sulcatum* toxic as from 101 mg/l.; *U. parduzi* toxic as from 71 mg/l. (all values as NaF). Hazard from drinking water.

Further ecologic data : 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.

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 : 6.1 Number and letter : 63c
Transport over land ADR/RID class : 6.1 Number and letter : 63c
ADR/RID and GGVS/GGVE : Name of material : SODIUM FLUORIDE

Sea Transport IMDG : IMDG class : 6.1 UN No. : 1690 Packing group : III
Ems : 6.1 - 04 MFAG : 750
Correct Technical Name : SODIUM FLUORIDE

Air Transport ICAO/IATA class : 6.1 UN No. : 1690 Packaging group : III
ICAO-TI & IATA-DGR : Correct Technical Name : SODIUM FLUORIDE

15. REGULATORY INFORMATION :
Labeling according to EC Directives

Symbol : T Toxic

R-phrases : 25-32-36/38 Toxic if swallowed. Contact with acids liberates very toxic gas. Irritating to eyes and skin.

S-phrases : 22-36-45 Do not breathe dust. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EC-No. : 231-667-8 EC label

Water pollution class : 1 (slightly polluting substance)



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16. OTHER INFORMATION

Reason for alteration

Change/addition in the chapter 7.

Change in the chapter on toxicology.

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