

**MATERIAL SAFETY DATA SHEET****SODIUM FLUOSILICATE**

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Revision nr : 2

Date : 15/1/2003

Supersedes : 30/11/2000

PR-014

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Toxic

Distributed By:
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Producer
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Synonyms

Sodium hexafluorosilicate
Sodium fluorosilicate

1. Identification of the product and the company

Identification of the product : Crystalline powder.
Trade name : SODIUM FLUOSILICATE .
Use : Industrial
Chemical formula : Na₂SIF₆
Producer : See distributor.

2. Information on ingredients

SUBSTANCE INCLUDED IN THE LIST OF DANGEROUS SUBSTANCES (ANNEX I OF DIRECTIVE 67/548 EEC)

Substance name	Value(s)	CAS nr / EINECS nr / EC index	Symbol(s)	R-Phrase(s)
Sodium fluorosilicate	>= 95 %	016893-85-9 / 240-934-8 / ----	T	23/24/25

3. Hazards identification

Risk Phrases : R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
- Inhalation : Irritating to respiratory system.
Breathing high concentrations of dust may lead to acute poisoning. Severe exposures result in respiratory failure and death.
- Skin contact : Moisture and perspiration will accelerate tissue destruction.
Prolonged skin contact may cause a severe effect, progressing to a delayed burn.
- Eye contact : May cause eye irritation. May cause destruction of eye tissue.
- Ingestion : More severe exposures result in muscular weakness, tremors, convulsions, (collapse), dyspnea, cardiac failure and death .

4. First aid measures

First aid
- Skin contact : Wash skin thoroughly with mild soap and water. Remove contaminated clothing and shoes.
Wash clothing before re-using. Seek medical attention if ill effect or irritation develops.
- Inhalation : Remove victim to fresh air. If breathing is difficult, give oxygen.
If not breathing, give artificial respiration. Take to hospital.
- Eye contact : In case of eye contact, immediately rinse with clean water for 20-30 minutes. Seek medical advice.
- Ingestion : Give water to drink.
Induce vomiting
If swallowed seek medical advice immediately and show this container or label.



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5. Fire - fighting measures

- Flammable class : Not combustible.
- Suitable : Sand.
CO2
Powder.
- Not to be used : Water.
- Special exposure hazards : In the presence of water, contact with metals may produce hydrogen which may form explosive mixtures with air. :
- Protection against fire : Wear suitable respiratory equipment.
Total impervious protective suits, gloves, and boots must be worn.

6. Accidental release measures

- Personal precautions : Safety glasses.
Wear impervious rubber safety shoes.
Keep public away from danger area. Use rubber gloves. Respiratory protection equipment may be necessary.
- Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
- After spillage and/or leakage : Sweep or shovel spills into appropriate container for disposal.
Avoid dust production.

7. Handling and storage

- Storage : Store in dry, cool, well-ventilated area.
Keep away from food, drink and animal feeding stuffs.
- Handling : Do not breathe dust. Avoid all contact with this substance. Wash hands plentifully and other exposed areas with water after handling.
Remove contaminated clothing and shoes.
Wash clothing before re-using.
Packagings, even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packagings as if they were full.

8. Exposure controls / personal protection

- Respiratory protection : Approved dust mask should be used if dust are generated when handling this material.
- Hand protection : Use rubber gloves.
- Skin protection : Rubber Apron.
Wear impervious rubber safety shoes.
Wear long sleeves.
- Eye protection : Safety glasses.
Chemical goggles or face shield.
- Others : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Exposure controls : Provide adequate ventilation to minimize dust concentrations.
- TLV-TWA [mg/m3] : 2.5
- TLV-STEL [ppm] : No data available.
- TLV-PEL [mg/m3] : 2.5

9. Physical and chemical properties

- Physical state : Crystalline powder.
- Colour : White.
- Odour : Odourless.
- Melting point [°C] : Decomposes
- Initial boiling point [°C] : Decomposes
- Density : 2.68

9. Physical and chemical properties (continued)

Solubility in water [g/100 ml] : 0.652
Flash point [°C] : Not flammable.

10. Stability and reactivity

Physico-chemical stability : Stable.
Materials to avoid : acid , (Release of fluoric acid.)
Conditions to avoid : moisture , Heating
Hazardous properties : In the presence of water, contact with metals can produces hydrogen which may form flammable mixtures with air.
Hazardous decomposition products : Fluoric acid

11. Toxicological information

- Inhalation : Harmful : may cause lung damage if swallowed.
Lethal concentration : (6h) 33 mg/m³
Breathing high concentrations of dust may lead to acute poisoning. Severe exposures result in respiratory failure and death.
Death.
Oral lethal dose : 50-500 (mg/kg)
- Ocular : Irritating to eyes.
Mouse oral LD50 [mg/kg] : 70
Rat oral LD50 [mg/kg] : 125
Rat inhalation LC50 [mg/m³/2h] : No data available.

12. Ecological information

Ecological effects information : Damage to plants.
LC50-96 Hour - fish [mg/l] : No data available.
48 Hour-EC50 - Daphnia magna [mg/l] : No data available.
IC50 72h Algae [mg/l] : No data available.

13. Disposal considerations

Disposal : Hazardous waste due to toxicity. Dispose of this material and its packing at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.
Packaging : Empty packaging can have residues must be recyclable or eliminated in accordance with local/ national regulations.

14. Transport information

Hazard Label(s)



: Toxic.
Transport hazard symbol : 6

- UN No. : 2674
- ADR/RID/ADNR/IMO-IMDG : Class 6.1
- H.I. nr : 60
- Shipping name : Sodium fluorosilicate
- Packing group : III
- IMDG-Marine pollution : No.



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15. Regulatory information

Symbol(s)



R Phrase(s)

S Phrase(s)

: Toxic.

: R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

: S01/02 - Keep locked up and out of reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

16. Other information

Further information

Product information

: Revision - See : *

: REGISTRY TOXIC NUMBER (RTECS/NIOSH) : VV 84 10 000

The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/ CE.

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