



Toxic

**Producer**

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**Synonyms**

Disodium difluoride

**1. Identification of the product and the company**

Company identification : See producer.  
Identification of the product : Crystalline powder.  
Trade name : SODIUM FLUORIDE .  
Use : Feed industry.  
Pharmaceutical industry.  
Industrial  
Chemical formula : NaF  
Type of product : Inorganic salt.

**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 fluoride	: >= 95 %	007681-49-4 / 231-667-8 / 009-004-00-7	T	25-32-36/38

**3. Hazards identification**

Risk Phrases : R25 - Toxic if swallowed.  
R32 - Contact with acids liberates very toxic gas.  
R36/38 - Irritating to eyes and skin.

Dangerous substances : Toxic.

- Inhalation : 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. This material has been shown to be a severe skin irritant. Prolonged skin contact may cause a severe effect, progressing to a delayed burn.

- Eye contact : Causes burns. May cause destruction of eye tissue.

- Ingestion : diarrhea nausea Abdominal pain vomiting  
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 advice.

- Inhalation : Remove victim to fresh air. Allow the victim to rest.  
If breathing is difficult, give oxygen. Take to hospital.

- Eye contact : In case of eye contact, immediately rinse with clean water for 20-30 minutes. Seek medical advice.

- Ingestion : Induce vomiting

**4. First aid measures (continued)**

Give water to drink. Take to hospital.

**5. Fire - fighting measures**

Flammable class : Not combustible.  
 - Suitable : CO2  
 Sand.  
 Powder  
 - Not to be used : None.  
 Special exposure hazards : On exposure to high temperature, may decompose, releasing toxic gases.  
 Protection against fire : Total impervious protective suits, gloves, and boots must be worn.  
 Self contained breathing apparatus.  
 Use water stream to cool containers.  
 Keep public away from danger area.

**6. Accidental release measures**

Personal precautions : Avoid all contact with this substance.  
 Safety glasses. Use rubber gloves.  
 Wear impervious rubber safety shoes. Respiratory protection equipment may be necessary.  
 Keep public away from danger area.  
 Environmental precautions : Prevent entry to sewers and soil. Notify authorities if product enters sewers or public waters.  
 After spillage and/or leakage : Sweep or shovel spills into appropriate container for disposal.  
 Collect spill when it's dry  
 Avoid dust production.

**7. Handling and storage**

Storage - away from : acid  
 Storage : Store in dry, well-ventilated area.  
 Keep packaging closed when not in use.  
 Handling : Suitable respiratory equipment. 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.  
 Provide adequate ventilation to minimize dust concentrations.

**8. Exposure controls / personal protection**

- Respiratory protection : Approved mask.  
 - Hand protection : Use rubber gloves.  
 - Skin protection : Rubber Apron.  
 Wear impervious rubber safety shoes.  
 Wear long sleeves.  
 - Eye protection : Chemical goggles or face shield with safety glasses.  
 - 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.  
 TWA [mg/m3] MAK : 2.5  
 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.
pH value	: 7.4 : Aqueous solution.
Melting point [°C]	: 980/1040
Initial boiling point [°C]	: 1705
Density	: 2.75
Solubility in water [g/100 ml]	: 4,0 (15°C) 4,2 (20°C) 4,3 (25°C) 5,0 (100°C)
Solubility in	: Alcohol. : weak.
Flash point [°C]	: Not flammable.

### 10. Stability and reactivity

Physico-chemical stability	: Stable.
Materials to avoid	: acid ( Release of fluoric acid. )
Conditions to avoid	: heat

### 11. Toxicological information

- Ingestion	: Acute toxicity
Mouse oral LD50 [mg/kg]	: 75
Rabbit dermal LD50 [mg/kg]	: No data available.
Rat oral LD50 [mg/kg]	: 52
Rat inhalation LC50 [mg/m <sup>3</sup> /2h]	: No data available.

### 12. Ecological information

Ecological effects information	: Prevent entry to sewers, soils and natural waters.
LC50-96 Hour - fish [mg/l]	: >100
48 Hour-EC50 - Daphnia magna [mg/l]	: >100
IC50 72h Algae [mg/l]	: >100

### 13. Disposal considerations

Disposal	: Flush spill area with water. 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 or dusts and are subject to proper waste disposal, as above. Dispose in a safe manner in accordance with local/national regulations.

### 14. Transport information

Hazard Label(s)



	: Toxic. Transport hazard symbol : 6
- UN No.	: 1690
- ADR/RID/ADNR/IMO-IMDG	: Class 6.1
- H.I. nr :	: 60
- Packing group	: III

**14. Transport information (continued)**

- IMDG-Marine pollution : No.

**15. Regulatory information**

Symbol(s)



R Phrase(s)

: R25 - Toxic if swallowed.  
R32 - Contact with acids liberates very toxic gas.  
R36/38 - Irritating to eyes and skin.

S Phrase(s)

: S07/09 - Keep container tightly closed and in well-ventilated place.  
S22 - Do not breathe dust.  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37 - Wear suitable protective clothing and gloves.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).

**16. Other information**

Further information

: Revision - See : \*

Product information

: REGISTRY TOXIC NUMBER (RTECS/NIOSH) : WB 035 00 00

Risk Phrases

: R25 - Toxic if swallowed.  
R32 - Contact with acids liberates very toxic gas.  
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The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/ CE.

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