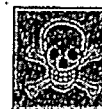




<b>SAFETY DATA SHEET</b>	Page: 1
	Revised edition no: 3
<b>SODIUM FLUOSILICATE</b> SODIUM SILICOFLUORIDE	Date: 12/2/2009
	Supersedes: 15/1/2003
	<b>PR-014</b> www.lisam.com



T : Toxic

**Producer**  
PRAYON S.A.  
Rue Joseph Wauters, 144  
B-4480 Engis Belgique-Belgium  
Tel. +32 (0)4 273 92 11  
Fax +32 (0)4 273 96 35  
In case of emergency : +32 (0)70 245 245

**New Zealand Importer**  
D C ROSSER & CO LTD  
7 Glenbrook St, Remuera  
AUCKLAND 1541 - NEW ZEALAND  
Tel. +64 (09) 5246-149  
Fax. +64 (09) 524-5816  
E-mail: rosser@xtra.co.nz

**Synonyms**

Sodium hexafluorosilicate  
Sodium fluorosilicate

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

e-mail address of the competent person responsible for the Safety Data Sheet

Trade name : SODIUM FLUOSILICATE  
Use : Industrial  
Chemical formula : Na<sub>2</sub>SiF<sub>6</sub>  
Producer : See distributor.  
Identification of the product : Crystalline powder

**2. 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

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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

Substance name	Contents	CAS No / EC No / Annex No	Symbol(s)	R-Phrase(s)
Sodium fluorosilicate	>= 95 %	16893-85-9 / 240-934-8 / ----	T	23/24/25

**4. FIRST AID MEASURES**

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

PRAYON S.A.  
Rue Joseph Wauters, 144 B-4480 Engis Belgique-Belgium  
Tel +32 (0)4 273 92 11  
Fax +32 (0)4 273 96 35

In case of emergency : +32 (0)70 245 245  
**Emergency New Zealand**  
New Zealand National Poisons  
Centre Number 0800 POISON or  
0800 764 766



PRAYON

## SAFETY DATA SHEET

### SODIUM FLUOSILICATE

Page: 2

Revised edition no: 3

Date: 12/2/2009

Supersedes: 15/1/2003

PR-014

www.lisam.com

#### 4. FIRST AID MEASURES (continued)

- Ingestion : If not breathing, give artificial respiration. Take to hospital  
: Give water to drink  
: Induce vomiting  
: If swallowed seek medical advice immediately and show this container or label

#### 5. FIRE-FIGHTING MEASURES

- Flammable class : Not combustible.
- Suitable extinguishing media : Sand.  
: CO2  
: Powder.
- Unsuitable extinguishing media : Water.
- Specific 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

- 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
- Respiratory protection : Approved dust mask should be used if dust are generated when handling this material
- 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<sup>®</sup> -TWA [mg/m<sup>3</sup>] : 2.5
- TLV-STEL [ppm] : No data available.
- TLV<sup>®</sup> & OEL(UK) - TWA [mg/m<sup>3</sup>] : 2.5



PRAYON

## SAFETY DATA SHEET

### SODIUM FLUOSILICATE

Page : 3

Revised edition no : 3

Date : 12/2/2009

Supersedes : 15/1/2003

PR-014

www.lisam.com

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C	Crystalline powder
Colour	: White.
Odour	: Odourless
Melting point [°C]	: Decomposes
Boiling point [°C]	: Decomposes
Density (g/cm <sup>3</sup> )	: 2.68
Solubility in water [mg/l]	: 0.652
Flash point [°C]	Not flammable

#### 10. STABILITY AND REACTIVITY

Stability and reactivity	: Stable
Materials to avoid	: Acids , ( 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/m <sup>3</sup> 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/l/4h]	: 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 container 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

Labelling ADR



T. Toxic  
Transport hazard symbol . 6

PRAYON S.A.

Rue Joseph Wauters, 144 B-4480 Engis Belgique-Belgium  
Tel +32 (0)4 273 92 11  
Fax +32 (0)4 273 96 35

In case of emergency : +32 (0)70 245 245



PRAYON

**SAFETY DATA SHEET**

**SODIUM FLUOSILICATE**

Page: 4

Revised edition no. 3

Date: 12/2/2009

Supersedes: 15/1/2003

PR-014

www.lisam.com

**14. TRANSPORT INFORMATION (continued)**

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

**15. REGULATORY INFORMATION**

Symbol(s)



R Phrase(s)

S Phrase(s)

: T : Toxic

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

: S1/2 : 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 SDS are in accordance with EC Commission Directive 2001/58/EC.

**DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

**17. NEW ZEALAND GOVERNMENT REGULATORY INFORMATION**

New Zealand HSN0 Approval Number HSR006941 Classifications 6.1C 6.4A 9.3B

End of Document

PRAYON S.A.

Rue Joseph Wauters, 144 B-4480 Engis Belgique-Belgium

Tel +32 (0)4 273 92 11

Fax +32 (0)4 273 96 35

In case of emergency : +32 (0)70 245 245