

WUHAN XINRU CHEMICAL INDUSTRY CO., LTD

Tel: 86-27-59843600/59843601 Fax:86-27-66660488 <http://www.whxinru.cn>

SODIUM SILICOFLUORIDE

Material Safety Data Sheet

Date updated 25. Mar, 2018

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Date concerning producer

Wuhan Xinru Chemical Industry Co.,Ltd

Add:2805 ,Building 1,Fuxinghuiyu Fuxing City(North Area),

Hejiadun Jiangnan District,Wuhan,Hubei Province,China

Tel/Fax:0086-027-66660488

1. Product Identification

Synonyms: sodium silicofluoride

CAS No.: 16893-85-9

Molecular Weight: 188.06

Chemical Formula: Na₂SiF₆

UN NO.:2674

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Silicofluoride	16893-85-9	98.5min	Yes

3. Hazards Identification

EMERGENCY OVERVIEW

Toxic by inhalation and if swallowed. Harmful if in contact with skin.

4. First Aid Measures

GENERAL ADVICE:

Show this safety data sheet to the doctor in attendance

INGESTION:

Drink plenty of water. Induce vomiting immediately and call a physician. If possible drink milk afterwards.

EYE CONTACT:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advise

INHALATION:

Move to fresh air. Give oxygen. Consult a physician after significant exposure

SKIN CONTACT:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician.

PROTECTION OF FIRST AIDERS:

Ensure adequate ventilation. Use personal protective equipment.

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5. Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA: Non-flammable. Carbon dioxide (CO₂), dry chemical
EXTINGUISHING MEDIA NOT SUITABLE: Water.

SPECIFIC FIRE-FIGHTING HAZARDS: Hydrogen fluoride can be produced during a fire.

SPECIFIC METHODS: Standard procedure for chemical fires.

PROTECTION FOR FIRE FIGHTERS: In case of fire, wear a self-contained breathing apparatus.

6. Accidental Release Measures

PERSONAL PRECAUTIONS: Ensure adequate ventilation. Use personal protective equipment.
Evacuate personnel to safe areas.

ENVIRONMENTAL PRECAUTIONS: Prevent product from entering drains.

METHODS FOR CLEANING UP: Shovel into suitable container for disposal.

7. Handling and Storage

TECHNICAL MEASURE TO PREVENT USER EXPOSURE

Use only in area provided with appropriate exhaust ventilation. Avoid dust formation.

SAFE HANDLING PRECAUTIONS Wear personal protective equipment (eyes).

TECHNICAL STORAGE MEASURES

25kg or 50kg woven polypropylene bags with waterproof inner liners.

STORAGE CONDITIONS

Keep containers tightly closed in a dry, cool and well ventilated area.

INCOMPATIBLE PRODUCTS Storage category A (away from acids).

8. Exposure Controls/Personal Protection

APPROPRIATE ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas.

SPECIFIC CONTROL PARAMETER (EXPOSURE LIMITS)

OSHA Permitted exposure level (PEL Final) 8 hr TWA 2.5³mg/m

PPE: RESPIRATORY PROTECTION

In case of respirable dust and/or fumes, use a self-contained breathing apparatus. PPE: HAND Rubber or plastic gloves.

PPE: EYE Tightly fitting safety goggles

PPE: SKIN AND BODY

Dust impervious protective suit. Remove and wash contaminated clothing before re-use

HYGIENE MEASURES

Avoid contact with skin, eyes and clothing. When using - do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

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9. Physical and Chemical Properties

FORM: Crystalline.	COLOUR: White powder.	pH: Between 6 and 7.
ODOR: Slightly pungent.	FLASH POINT: Does not flash.	DECOMPOSITION TEMPERATURE: Starts at 500°C.
MOLECULAR WEIGHT: 188.06	RELATIVE DENSITY: 2.68	SOLUBILITY: Water: 0.64g/100g water at 20°C
TYPICAL POUR DENSITY: 1340kg/m ³	TYPICAL TAP DENSITY: 1590kg/m ³	

10. Stability and Reactivity

STABILITY: Stable at normal conditions. Decomposition starts at 500°C.	CONDITIONS TO AVOID: To avoid thermal decomposition, do not overheat.
HAZARDOUS DECOMPOSITION PRODUCTS: Sodium Fluoride, Silicon Tetra fluoride and Hydrogen fluoride	MATERIALS TO AVOID: Metals.

11. Toxicological Information

ACUTE TOXICITY: LD50/oral/rat = 125 mg/kg.	SENSITIZATION: No data available.
Irritation of skin: mild/500 mg/rabbit	
Irritation of eyes: severe/100 mg/rabbit	
LOCAL EFFECTS: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.	CHRONIC TOXICITY: Continuous or intermittent exposure to inorganic fluorides can lead to appreciable accumulation of fluoride in bone, and, to development of osteosclerosis and changes.
HUMAN EXPERIENCE:	

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No evidence of association between fluoride ingestion and mortality from cancer in humans.
(Internal Agency of Research on Cancer).

12. Ecological Information

MOBILITY: No data available.	ECOTOXICITY: No data available.	BIOACCUMULATION: No data available.
PERSISTENCE AND DEGRADABILITY: No data available.	FURTHER INFORMATION: Highly toxic to foliage. Lethal to Tinca Vulgaris at 50 ppm.	

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options.

14. Transport Information

ADR/RID: 6.1	Labels: Harmful	Proper shipping name: Sodium fluorosilicate
IMDG: Class: 6.1	Labels: Harmful Subrisk: None	Proper shipping name: Sodium fluorosilicate
Packaging group: III		
IATA: Class: 6.1	Labels: Harmful Subrisk: None	Proper shipping name: Sodium fluorosilicate
Packaging group: III		

15. Regulatory Information

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 advise. S44 : If you feel unwell, seek medical advice (show label where possible).**

16. Other Information

RECOMMENDED USE:
1. Fluoridation of drinking water.
2. Laundry sours.
3. Opalescent glass.

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4. Vitreous enamel frits.
5. Metallurgy of aluminium and verblium.
6. Insecticides and rodenticides.
7. Leather and wood preservatives.

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