



Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier: **SODIUM SILICOFLUORIDE**

Synonyms:

Intended use:

Uses Advised Against: None known.

Company Identification

DPC Industries, Inc.
DPC Enterprises, LP
DXI Industries, Inc.
DX Terminals
PO Box 24600
Houston , TX 77229-4600

Emergency

CHEMTREC (USA)


(800) 424-9300

24 hour Emergency Telephone No.

(281) 457-4888

www.dxgroup.com

2. Hazard identification of the product

Health hazards	Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.	Category 3 Category 3 Category 3
Label elements Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.		
		
Signal Word	Danger	
Hazard Statements	Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.	
Precautionary Statements		
Prevention	Avoid breathing dust / fume / gas / mist / vapors / spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves / eye protection / face protection.	
Response	IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Remove / Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell. Call a POISON CENTER or doctor / physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
Storage	Store in well-ventilated area. Keep tightly closed when not in use. Store locked up.	
Disposal	Dispose of contents/container in accordance with local / national regulations.	

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. Substance classified with a health or environmental hazard.

Ingredient/Chemical Designations	CAS Number	Weight %
Sodium silicofluoride	0016893-85-9	75 - 100

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4. First aid measures

Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If the person is conscious, have them drink water or milk. Contact a physician immediately. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview	ACGIH - TLV: 2.5 mg/cu. M Skin contact: May cause skin irritation. Eye contact: Contact may cause eye irritation. Ingestion: May cause abdominal pain, diarrhea, vomiting, excess salivation, thirst, perspiration and painful spasms of the limbs. May be fatal in severe cases. Inhalation: May cause respiratory tract irritation and nausea. See section 2 for further details.
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5. Fire-fighting measures

Extinguishing media	Use extinguishing agent suitable for type of surrounding fire. Do not direct water at the heated metal.
Unsuitable extinguishing media	None known.
Special hazards arising from the substance or mixture	Hazardous decomposition: HYDROGEN FLUORIDE GAS AND OTHER FLUORIDE COMPOUNDS RELEASED UPON DECOMPOSITION Avoid breathing dust / fume / gas / mist / vapors / spray.
Advice for fire-fighters	Wear positive pressure, self-contained breathing apparatus, (SCBA) with a full facepiece and protective clothing. Stay upwind and keep out of low areas. ERG Guide No. 154

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering.
Environmental precautions	Do not allow spills to enter drains or waterways. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
Methods and material for containment and cleaning up	Clean spills using dustless method. If sweeping employed use respiratory protection.

7. Handling and storage

Precautions for safe handling	See section 2 for further details. - [Prevention]:
Conditions for safe storage, including any incompatibilities	Handle containers carefully to prevent damage and spillage. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage. Incompatible materials: STRONG ACIDS OR ALKALINE MATERIALS. AVOID CONTACT WITH IRON CONTAINING MATERIALS. STORE IN CLOSED BIN OR CONTAINER IN DRY AREA AWAY FROM HEAT OR OPEN FLAME. KEEP AWAY FROM FOODSTUFFS OR FOOD ITEMS. DO NOT STORE NEAR INCOMPATIBLE MATERIALS. See section 2 for further details. - [Storage]:

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8. Exposure controls and personal protection Occupational exposure limits

CAS No.	Material	Source	Value
0016893-85-9	Sodium silicofluoride	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Individual protection measures, such as personal protective equipment

Respiratory	Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.
Eyes	Chemical safety goggles and/or full-face shield.
Skin	Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical Impervious Gloves
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

Appearance	White Solid, Powder or Granules
Odor	Not Measured
Odor threshold	6.5-7.5
pH	Not Applicable
Melting point / freezing point (°C)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable
Flash Point	Not Determined
Evaporation rate (Ether = 1)	Not Applicable
Flammability (solid, gas)	Not Measured
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Applicable
	Upper Explosive Limit: Not Applicable
Vapor pressure (Pa)	Not Applicable
Vapor Density	Not Applicable
Specific Gravity	(H2O=1) 2.679
Solubility in Water	0.652 @17C
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature (°C)	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC %	Not Measured

10. Stability and reactivity

Reactivity	Hazardous polymerization will not occur.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	None expected under normal processing.
Conditions to avoid	No data available.
Incompatible materials	Strong acids or alkaline materials. Avoid contact with iron containing materials.
Hazardous decomposition products	Hydrogen fluoride gas and other fluoride compounds released upon decomposition.

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11. Toxicological information

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation LC50, mg/L/2hr
Sodium silicofluoride - (16893-85-9)	125.00, Rabbit - Category: 3	70.00, Rat - Category: 2	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate)..

POTENTIAL HEALTH EFFECTS:

Information on likely routes of exposure Hazard	
Skin corrosion/irritation:	Not Applicable
Eye damage/irritation:	Causes serious eye irritation.
Sensitization (respiratory):	Not Applicable
Sensitization (skin):	Not Applicable
Information on toxicological effects	
Acute Toxicity (mouth):	Toxic if swallowed.
Acute Toxicity (skin):	Toxic in contact with skin.
Acute Toxicity (inhalation):	Toxic if inhaled.
Germ toxicity:	Not Applicable
Carcinogenicity:	Not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
Reproductive Toxicity:	Not Applicable
Specific target organ systemic	Not Applicable
Specific target organ systemic	Not Applicable
Aspiration hazard:	Not Applicable

12. Ecological information

Aquatic Ecotoxicity

Ingredient	LC50/96 hr fish, mg/l	EC50/48hr crustacea, mg/l	EC50/72hr algae, mg/l
Sodium silicofluoride (16893-85-9)	Not Available	Not Available	Not Available

Persistence and degradability	There is no data available on the preparation itself.
Bioaccumulative potential	Not Measured
Mobility in soil	No data available
Results of PBT and vPVB assessment	This product contains no PBT/vPvB chemicals.
Other adverse effects	No other effects are expected.

13. Disposal considerations

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.
Waste from material	Sweep or vacuum up spilled material and place in container for disposal. The waste determination should be made in discussion between the user and the waste disposal company.
Container Management	Empty containers or liners may retain some product residues.

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14. Transport information

Transport hazard class(es)	
DOT (Domestic Surface Transportation)	
DOT Proper Shipping Name:	UN2674, Sodium fluorosilicate, 6.1, III
DOT Hazard Class	6.1
DOT Label:	6.1
UN / NA Number:	UN2674
DOT Packing Group:	III
CERCLA/DOT RQ:	Not Applicable
Environmental hazards:	IMDG: Marine Pollutant: No
Special precautions for user:	Not Applicable

15. Regulatory information

Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory.	
OSHA REGULATORY STATUS:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)	
US EPA Tier II Hazards:	Fire:	No
	Sudden Release of Pressure:	No
	Reactive:	No
	Immediate (Acute):	Yes
	Delayed (Chronic):	No
SARA 302 Extremely Hazardous Substance:		No
SARA 311/312 Chemicals :		No
SARA 313 (TRI)		No
CAA Section 112 Hazardous Air Pollutant		No
CAA Section 112R Risk Management Plan		No
State Regulations:	N.J. RTK Substances (>1%)	Listed
	Penn RTK Substances (>1%)	Not listed
	California Prop 65	Not listed

16. Other information

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.