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## **1** Identification

- · Product identifier
- · Trade name: Sodium Fluoride, Laboratory Grade Powder
- Article number: S2915
- CAS Number: 7681-49-4
- *EC number:* 231-667-8
- Index number: 009-004-00-7
- Details of the supplier of the safety data sheet
  Manufacturer/Supplier: Aqua Solutions, Inc.
  6913 Highway 225 DEER PARK, TX 77536 USA
  800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

### 2 Hazard(s) identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Toxicity - Oral 3 H301 Toxic if swallowed.

GHS07

Skin Irritation 2H315 Causes skin irritation.Eye Irritation 2AH319 Causes serious eye irritation.

· Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



 Signal word Danger
 Hazard statements Toxic if swallowed.
 Causes skin irritation.
 Causes serious eye irritation.

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- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eve contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- *After swallowing:* Do not induce vomiting; immediately call for medical help.

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#### Trade name: Sodium Fluoride, Laboratory Grade Powder

• Information for doctor:

- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### **6** Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to section 13.
- · Reference to other sections
- See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- **PAC-1**: 17 mg/m<sup>3</sup>
- **PAC-2:** 90 mg/m<sup>3</sup>
- **PAC-3:** 1,100 mg/m<sup>3</sup>

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling Thorough dedusting.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

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	Control parameters Components with limit values that require monitoring at the workplace:		
	: 7681-49-4 Sodium Fluoride		
	Long-term value: 2.5 mg/m <sup>3</sup> as F		
REL	Long-term value: 2.5 mg/m <sup>3</sup> as F		
TLV	Long-term value: 2.5 mg/m <sup>3</sup> as F, A4; BEI		
· Ingr	edients with biological limit values:		
CAS	: 7681-49-4 Sodium Fluoride		
BEI	2 mg/L LD50 Intraperitoneal: urine Time: prior to shift LD50: Fluoride (background, nonspecific)		
	3 mg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Fluoride (background, nonspecific)		
· Addi	tional information: The lists that were valid during the creation were used as basis.		
· Pers	osure controls onal protective equipment: eral protective and hygienic measures:		
	away from foodstuffs, beverages and feed.		
	ediately remove all soiled and contaminated clothing.		

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

• Breathing equipment: Not required.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the

chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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· Body protection: Protective work clothing

9 Physical and chemical properties						
· Information on basic physical and chem	nical properties					
· General Information						
· Appearance:						
Form:	Powder					
Color:	White					
· Odor:	Odorless					
· Odor threshold:	Not determined.					
· pH-value:	Not applicable.					
· Change in condition						
Melting point/Melting range:	Undetermined.					
<b>Boiling point/Boiling range:</b>	Undetermined.					
· Flash point:	Not applicable.					
· Flammability (solid, gaseous):	Product is not flammable.					
· Decomposition temperature:	Not determined.					
· Ignition temperature:	Not determined.					
· Danger of explosion:	Product does not present an explosion hazard.					
· Explosion limits:						
Lower:	Not determined.					
Upper:	Not determined.					
$\cdot$ Vapor pressure at 1077 °C (1,970.6 °F).	: 1 hPa (0.8 mm Hg)					
· Density at 20 °C (68 °F):	2.79 g/cm <sup>3</sup> (23.28255 lbs/gal)					
· Relative density	Not determined.					
· Vapor density	Not applicable.					
· Evaporation rate	Not applicable.					
· Solubility in / Miscibility with						
Water at 20 °C (68 °F):	42 g/l					
· Partition coefficient (n-octanol/water):	Not determined.					
· Viscosity:						
Dynamic:	Not applicable.					
Kinematic:	Not applicable.					
• Other information	No further relevant information available.					

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

 $\cdot$  Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

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· Hazardous decomposition products: No dangerous decomposition products known.

### **11** Toxicological information

- · Information on toxicological effects
- Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

Oral LD50 100 mg/kg (ATE)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 3
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation: Disposal must be made according to official regulations.*

14 Transport information						
· UN-Number · DOT, IMDG, IATA	UN1690					
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UN proper shipping name DOT IMDG IATA	Sodium fluoride, solid SODIUM FLUORIDE, SOLID, MARINE POLLUTANT SODIUM FLUORIDE, SOLID
Transport hazard class(es)	
Class Label	6.1 Toxic substances 6.1
Class Label	6.1 Toxic substances 6.1
Class Label	6.1 Toxic substances 6.1
Packing group DOT, IMDG, IATA	111
Environmental hazards: Marine pollutant:	Yes (P) Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category Segregation Code	Warning: Toxic substances 60 F-A,S-A A SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
Hazardous substance: Remarks:	1000 lbs, 454 kg Special marking with the symbol (fish and tree).
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· IMDG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 1690 SODIUM FLUORIDE, SOLID, 6.1, III

## **15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.

· Carcinogenic categories

- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) A4
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Danger

• **Hazard statements** Toxic if swallowed. Causes skin irritation. Causes serious eye irritation.

· Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Wear protective gloves / eye protection / face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label).

Rinse mouth.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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Trade name: Sodium Fluoride, Laboratory Grade Powder

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Department issuing SDS:** Environment protection department.

· Contact:

Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 05/28/2024: Reviewed SDS for accuracy. MH/STN 05/29/2024 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association P: Marine Pollutant EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit **BEI:** Biological Exposure Limit Acute Toxicity - Oral 3: Acute toxicity - Category 3 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A  $\cdot$  \* Data compared to the previous version altered.

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