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# **Safety Data Sheet**

# according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: January 15, 2021

### 1 Identification

· Product identifier

· Trade name: Sodium Fluoride, ACS Grade

· Product code: SF9000-K

· **CAS Number:** 7681-49-4

· Recommended use and restriction on use

· Recommended use: Laboratory chemicals

Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331 USA

Tel +1 (717)632-1291

Toll-Free: (866)632-1291

info@aquaphoenixsci.com

Distributor:

AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331

(717) 632-1291

· Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America)

+1 (813)248-0585 (International)

# 2 Hazard(s) identification

· Classification of the substance or mixture

Acute Tox. 3 H301 Toxic if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS06 GHS07

· Signal word: Danger

· Hazard statements:

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements:** 

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(Cont'd. of page 1) P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection. P301+P310 If swallowed: Immediately call a poison center/doctor. P330 Rinse mouth. P302+P352 If on skin: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. P332+P313 Take off contaminated clothing and wash it before reuse. P362+P364 If eye irritation persists: Get medical advice/attention. P337+P313

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

- Chemical characterization: Substances
- · CAS No. Description 7681-49-4 sodium fluoride

### 4 First-aid measures

- Description of first aid measures
- · General information: In case of irregular breathing or respiratory arrest provide artificial respiration.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Brush off loose particles from skin.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Causes eye irritation.

Causes skin irritation.

Gastric or intestinal disorders when ingested.

- · Danger: Toxic if swallowed.
- Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

# 5 Fire-fighting measures

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- Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

- Environmental precautions Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up

Sweep up and place into an appropriate container.

Send for recovery or disposal in suitable receptacles.

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.

# 7 Handling and storage

- · Handling
- Precautions for safe handling:

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Use only in well ventilated areas.

Information about protection against explosions and fires:

During heating or in case of fire poisonous gases are produced.

- · Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat.
- Information about storage in one common storage facility:

Do not store together with acids.

Store away from foodstuffs.

Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No relevant information available.

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# 8 Exposure controls/personal protection

### · Control parameters

| <ul> <li>Components with limit values that require monitoring at the workplace:</li> </ul> |
|--|
|--|

### 7681-49-4 sodium fluoride

PEL (USA) Long-term value: 2.5 mg/m³

as F

REL (USA) Long-term value: 2.5 mg/m<sup>3</sup>

as F

TLV (USA) Long-term value: 2.5 mg/m<sup>3</sup>

as F, BEI

EL (Canada) | Long-term value: 2.5 mg/m³

as F

LMPE (Mexico) Long-term value: 2.5 mg/m<sup>3</sup>

A4, IBE; como F

### · Ingredients with biological limit values:

### 7681-49-4 sodium fluoride

BEI (USA) 2 mg/L

Medium: urine
Time: prior to shift

Parameter: Fluoride (background, nonspecific)

3 mg/L Medium: urine Time: end of shift

Parameter: Fluoride (background, nonspecific)

### Exposure controls

### · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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.

- · Engineering controls: Provide adequate ventilation.
- · Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations are present.

· Protection of hands:



Protective gloves

- Material of gloves Fluorocarbon rubber (Viton)
- · Eye protection:

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Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment

No relevant information available.

| 9 Physical and chemical properties                                       |   |  |
|--|---|--|
| · Information on basic physical and chemical properties<br>· Appearance: |   |  |
| Form:  | Crystalline                                   |  |
| Color:   | White   |  |
| · Odor:  | Odorless                                      |  |
| · Odor threshold:  | Not determined.                               |  |
| · pH-value:  | Not applicable.                               |  |
| Melting point/Melting range:   | 1012 °C (1853.6 °F)                           |  |
| · Boiling point/Boiling range:   | 1704 °C (3099.2 °F)                           |  |
| · Flash point:   | The product is not flammable.                 |  |
| · Flammability (solid, gaseous):   | Product is not flammable.                     |  |
| · Auto-ignition temperature:   | Not determined.                               |  |
| · Decomposition temperature:   | Not determined.                               |  |
| · Danger of explosion:   | Product does not present an explosion hazard. |  |
| · Explosion limits   |   |  |
| Lower:   | Not determined.                               |  |
| Upper:   | Not determined.                               |  |
| · Oxidizing properties:  | Non-oxidizing.                                |  |
| · <b>Vapor pressure at 1077 °C (1970.6 °F):</b> 1 hPa (0.8 mm Hg)        |   |  |
| · Density at 20 °C (68 °F):  | 2.79 g/cm³ (23.28 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  |  |
|  | Soluble.                                      |  |
| · Partition coefficient (n-octanol/water): Not determined.               |   |  |
| · Viscosity  |   |  |
| Dynamic:   | Not applicable.                               |  |
| Kinematic:   | Not applicable.                               |  |
| Other information  | No relevant information available.            |  |

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# 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Contact with strong acids releases hydrogen fluoride.

Toxic fumes may be released if heated above the decomposition point.

- · Conditions to avoid No relevant information available.
- · Incompatible materials Acids.
- · Hazardous decomposition products

Under fire conditions only:

Danger of toxic fluorine based pyrolysis products.

# 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity: Toxic if swallowed.
- · LD/LC50 values that are relevant for classification:

### 7681-49-4 sodium fluoride

Oral LD50 52 mg/kg (rat)

- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eye: Causes eye irritation.
- · Sensitization: Based on available data, the classification criteria are not met.
- IARC (International Agency for Research on Cancer):

Substance is not listed.

# NTP (National Toxicology Program):

Substance is not listed.

### · OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

# · Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

# · Acute effects (acute toxicity, irritation and corrosivity):

Toxic if swallowed.

Irritating to eyes and skin.

- · Repeated dose toxicity: No relevant information available.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.

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· **Aspiration hazard:** Based on available data, the classification criteria are not met.

# 12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · **Mobility in soil:** No relevant information available.
- Additional ecological information
- · General notes:

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

· Other adverse effects No relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

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

| 14 Transport information  |  |
|---|--|
| · UN-Number<br>· DOT, ADR/RID/ADN, IMDG, IATA                       | UN1690   |
| · UN proper shipping name<br>· DOT<br>· ADR/RID/ADN, IATA<br>· IMDG | Sodium fluoride, solid<br>SODIUM FLUORIDE, SOLID<br>SODIUM FLUORIDE, SOLID, MARINE POLLUTANT |
| Transport hazard class(es)  |  |
| · DOT   |  |
| 1000 <u>1</u>   |  |

· Class 6.1 · Label 6.1

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|--|---|
| · ADR/RID/ADN  |   |
|  |   |
| · Class<br>· Label   | 6.1 (T5)<br>6.1                           |
| ·IMDG  |   |
|  |   |
| · Class<br>· Label   | 6.1<br>6.1                                |
| · IATA   |   |
|  |   |
| · Class<br>· Label   | 6.1<br>6.1                                |
| · Packing group  |   |
| DOT, ADR/RID/ADN, IMDG, IATA   | III                                       |
| · Environmental hazards<br>· Marine pollutant:   | Yes (DOT)<br>Symbol (fish and tree)       |
| <ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul> | Warning: Toxic substances<br>60<br>6.1-04 |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.                                    |   |
| Transport/Additional information:  |   |
| · DOT<br>· Hazardous substance:  | 1000 lbs, 454 kg                          |

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

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Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

EPA (Environmental Protection Agency):

Substance is not listed.

IARC (International Agency for Research on Cancer):

3

· Canadian Domestic Substances List (DSL):

Substance is not listed.

### 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.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Acute Tox. 3: Acute toxicity - Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers