Revision: August 22, 2020

1 Identification
· Product identifier
 Trade name: <u>Sodium Fluoride, ACS Grade</u> Product code: SF9000 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:
(Cont'd. on page 2)

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

Revision: August 22, 2020

Trade name: Sodium Fluoride, ACS Grade

(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.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
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

(Cont'd. on page 3)

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

Revision: August 22, 2020

Trade name: Sodium Fluoride, ACS Grade

(Cont'd. of page 2)

• 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.

(Cont'd. on page 4)

Revision: August 22, 2020

Trade name: Sodium Fluoride, ACS Grade

(Cont'd. of page 3)

8 Exposure co	ontrols/personal protection		
· Control parameters			
· Components w	· Components with limit values that require monitoring at the workplace:		
	7681-49-4 sodium fluoride		
PEL (USA)	Long-term value: 2.5 mg/m³ as F		
REL (USA)	Long-term value: 2.5 mg/m³ as F		
TLV (USA)	Long-term value: 2.5 mg/m³ as F, BEI		
EL (Canada)	Long-term value: 2.5 mg/m³ as F		
LMPE (Mexico)	Long-term value: 2.5 mg/m³ A4, IBE; como F		
· Ingredients wit	h biological limit values:		
7681-49-4 sodi BEI (USA) 2 mg			
Para 3 mg Med Timo	e: prior to shift ameter: Fluoride (background, nonspecific) g/L lium: urine e: end of shift ameter: Fluoride (background, nonspecific)		
The usual preca Keep away from Immediately ren Wash hands be Avoid contact w Engineering co Breathing equi Not required un	tive and hygienic measures: autionary measures for handling chemicals should be followed. a foodstuffs, beverages and feed. nove all soiled and contaminated clothing. fore breaks and at the end of work. ith the eyes and skin. ontrols: Provide adequate ventilation. pment: der normal conditions of use. spiratory protective device when high concentrations are present.		
Protect	ive gloves		
 Material of glov Eye protection 	ves Fluorocarbon rubber (Viton) :		
		(Cont'd. on page 5)	

Revision: August 22, 2020

Trade name: Sodium Fluoride, ACS Grade

(Cont'd. of page 4)

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 prope	erties	
[·] Information on basic physical a	and chemical properties	
· 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.	
· Vapor pressure at 1077 °C (1970.6	° F): 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/wa	ter): Not determined.	
· Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
[·] Other information	No relevant information available.	

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

Revision: August 22, 2020

Trade name: Sodium Fluoride, ACS Grade

(Cont'd. of page 5)

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.

 \cdot 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.

(Cont'd. on page 7)

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

Revision: August 22, 2020

Trade name: Sodium Fluoride, ACS Grade

(Cont'd. of page 6)

· 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.

· UN-Number	
· DOT, ADR/RID/ADN, IMDG, IATA	UN1690
· UN proper shipping name	
·DOT	Sodium fluoride, solid
· ADR/RID/ADN, IATA	SODIUM FLUORIDE, SOLID
·IMDG	SODIUM FLUORIDE, SOLID, MARINE POLLUTANT
[·] Transport hazard class(es)	
· DOT	
· Class	6.1
· Label	6.1

Revision: August 22, 2020

	(Cont'd. of p	age 7
ADR/RID/ADN		
Class	6.1 (T5)	
Label	6.1	
IMDG		
Class	6.1	
Label	6.1	
ΙΑΤΑ		
Class	6.1	
Label	6.1	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	III	
Environmental hazards		
Marine pollutant:	Yes (DOT) Symbol (fish and tree)	
<u> </u>		
Special precautions for user Hazard identification number (Kemler code):	Warning: Toxic substances 60	
• EMS Number:	6.1-04	
Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT		
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):

(Cont'd. on page 9)

Revision: August 22, 2020

aue name: Sod	ium Fluoride, ACS Grade
	(Cont'd. of pag
Substance is no	it listed.
· Section 313 (S	pecific toxic chemical listings):
Substance is no	t listed.
· TSCA (Toxic S	ubstances Control Act)
All ingredients a	re listed or exempt.
· Proposition 65	(California)
· Chemicals kno	wn to cause cancer:
Substance is no	it listed.
· Chemicals kno	wn to cause developmental toxicity for females:
Substance is no	
	wn to cause developmental toxicity for males:
Substance is no	· · · · · ·
	wn to cause developmental toxicity:
Substance is no	
•	nental Protection Agency):
Substance is no	it listed.
 Canadian Dom Substance is no 	estic Substances List (DSL): t listed.
6 Other inform	nation
	n is based on our present knowledge. However, this shall not constitute a guarantee for a features and shall not establish a legally valid contractual relationship.
IMDG: International	and acronyms: reement concerning the International Carriage of Dangerous Goods by Road Maritime Code for Dangerous Goods ent of Transportation
IATA: International CAS: Chemical Abs LC50: Lethal conce	Air Transport Association stracts Service (division of the American Chemical Society) ntration, 50 percent
Acute Tox. 3: Acute	50 percent al Safety & Health Administration • toxicity – Category 3 rrosion/irritation – Category 2
Eye Irrit. 2A: Seriou · Sources	s eye damage/eye irritation – Category 2A
Website, US E overview/home.	
Patty's Industria	ical Abstracts Registry, American Chemical Society (www.cas.org) I Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 oull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISE
978-0-07-17692	6 ,

Safety Data Sheets, Individual Manufacturers

(Cont'd. on page 10)

Revision: August 22, 2020

Trade name: Sodium Fluoride, ACS Grade

(Cont'd. of page 9)

SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com