

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : Sodium fluoride

Number : 000000020778

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : solid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Acute toxicity, Category 3, Oral
Skin irritation, Category 2
Eye irritation, Category 2A

GHS Label elements, including precautionary statements

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

Symbol(s)

:



Signal word

:

Danger

Hazard statements

:

Toxic if swallowed.
Causes skin irritation.
Causes serious eye irritation.

Precautionary statements

:

Prevention:

Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Rinse mouth.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified

:

Contact with acids liberates very toxic gas.
May cause hypocalcemia (depletion of calcium in the body) which may be fatal.

Carcinogenicity

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : FNa

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Sodium fluoride	7681-49-4	100.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Take off all contaminated clothing immediately. Call a physician immediately.

Inhalation : Remove to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. First treatment with calcium gluconate paste. Call a physician immediately.

Eye contact : Protect unharmed eye. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is fully conscious, give a cupful of water. Call a physician.

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate : Treat symptomatically.

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

medical attention and
special treatment needed, if
necessary

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
- Specific hazards during firefighting : Container may rupture on heating.
Some risk may be expected of corrosive and toxic decomposition products.
Fire may cause evolution of:
Hydrogen fluoride
Sodium oxides
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
The product itself does not burn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment. Unprotected persons must be kept away.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Provide adequate ventilation.
Avoid dust formation.
Do not breathe dust.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Prevent further leakage or spillage if safe to do so.

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

Clean contaminated floors and objects thoroughly while observing environmental regulations.
Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up or vacuum up spillage and collect in suitable container for disposal.
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only with adequate ventilation and in closed systems.
Do not breathe dust.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
The product is not flammable.

Storage

Conditions for safe storage, including any incompatibilities : Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in original container.

Advice on common storage : Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Always have on hand a first-aid kit, together with proper instructions.
Do not breathe dust.

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

- Engineering measures : Local exhaust
- Eye protection : Safety goggles
- Hand protection : Impervious gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Wear suitable protective equipment.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Remove and wash contaminated clothing before re-use.
Contaminated work clothing should not be allowed out of the workplace.
Keep working clothes separately.
Wash hands before breaks and immediately after handling the product.
When using, do not eat, drink or smoke.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Sodium fluoride	7681-49-4	TWA : Time weighted average	2.5 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as F			

Sodium fluoride	7681-49-4	REL : Recommended exposure limit (REL):	2.5 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Further information	:	Expressed as : as F			

SAFETY DATA SHEET

**Sodium fluoride****01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

Sodium fluoride	7681-49-4	PEL : Permissible exposure limit	2.5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as F			
Sodium fluoride	7681-49-4	TWA : Time weighted average	2.5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as F			
Sodium fluoride	7681-49-4	TWA : Time weighted average	2.5 mg/m3	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Dust.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Color	: colourless
Odor	: odourless
Odor threshold	: Note: No data available
pH	: ca. 8.0 - 10.0 at , 20 °C
Melting point/range	: 990 °C
Boiling point/boiling range	: 1,704 °C at 1,013 hPa

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: No data available
Vapor density	: Note: No data available
Density	: 2.7 g/cm ³ at 20 °C
Water solubility	: 42 g/l at 20 °C
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

Molecular weight : 41.99 g/mol

Bulk density : ca. 950 - 1,100 kg/m³**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Keep away from heat.

Incompatible materials : With strong mineral acids hydrogen fluoride is produced.
Glass and silicate-containing materials are attacked.Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Hydrogen fluoride
Sodium oxides**SECTION 11. TOXICOLOGICAL INFORMATION**Acute oral toxicity : LD50: 149 mg/kg
Species: Rat, female: LD50: 223 mg/kg
Species: Rat, male

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : LD50: > 2,000 mg/kg

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

Species: Rat

Skin irritation	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Eye irritation	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Sensitisation	: Species: Guinea pig Result: Does not cause skin sensitisation. Method: Buehler Test
Repeated dose toxicity	: Exposure time: 28 d NOAEL (No observed adverse effect level): 25 ppm Method: Repeated dose (28 days) toxicity (oral)
Genotoxicity in vitro	: Test Method: Ames test Metabolic activation: with and without metabolic activation Result: negative
	: Test Method: In vitro mammalian cell gene mutation test Metabolic activation: without metabolic activation Result: negative
Genotoxicity in vivo	: Test Method: Chromosome aberration test Species: Mouse Result: negative

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	: Note: No data available
Toxicity to daphnia and other aquatic invertebrates	: Note: No data available

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

Toxicity to algae : Note: No data available

Elimination information (persistence and degradability)

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	UN/ID No.	: UN 1690
	Proper shipping name	: SODIUM FLUORIDE, SOLID
	Class	: 6.1
	Packing group	: III
	Hazard Labels	: 6.1

IATA	UN/ID No.	: UN 1690
	Description of the goods	: SODIUM FLUORIDE, SOLID
	Class	: 6.1
	Packaging group	: III
	Hazard Labels	: 6.1
	Packing instruction (cargo aircraft)	: 677
	Packing instruction (passenger aircraft)	: 670
	Packing instruction (passenger aircraft)	: Y645

IMDG	UN/ID No.	: UN 1690
	Description of the goods	: SODIUM FLUORIDE, SOLID
	Class	: 6.1
	Packaging group	: III

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

Hazard Labels : 6.1
EmS Number : F-A, S-A
Marine pollutant : no
IMDG Code segregation group 35 - Separate from acids (SGG1)

Other information : Incompatible with acids.

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemicals Act (AIC), as amended : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

US. EPA CERCLA Hazardous Substances (40 CFR 302) : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

Reportable quantity: 1000 lbs

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

CERCLA Reportable Quantity : 1000 lbs

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Sodium fluoride 7681-49-4

New Jersey RTK : Sodium fluoride 7681-49-4

Pennsylvania RTK : Sodium fluoride 7681-49-4

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Sodium fluoride**01148-500G**

Version 1.2

Revision Date 12/01/2021

Print Date 05/29/2023

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 10/11/2021

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group