

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 16.08.2022 Version 2

TEKKİM

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Catalog No. TK.201031.00000
Product Name Sodium Fluoride
Cas no 7681-49-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Pharmaceutical production. Cosmetic raw material. Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute toxicity, Oral, Category 3
Skin irritation, Category 2
Eye irritation, Category 2

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements (SEA)

Prevention

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P301+P310 IF SWALLOWED: Call a NATIONAL POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.



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SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler

EC No	231-667-8
Molar mass	41.98 g/mol
Cas No	7681-49-4
Concentration	(<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Provide fresh air..
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse eyelids with water for 10-15 minutes. See a doctor immediately.
<i>Following ingestion</i>	Give up to two glasses of water. Get medical help immediately. Only in exceptional cases; if medical assistance is not available within one hour, induce vomiting (only if the person is awake and fully conscious). After: activated charcoal (20 - 40g in 10% solution).

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Hydrogen fluoride. Sodium oxide. It is not flammable. May form free in case of fire: Hydrogen fluoride.

All-round fire can release dangerous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

6.4 Reference to other sections



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Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Do not store together with acids.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Sodium fluoride (7681-49-4)

EN MAK Acceptable maximum concentration (MAK) 2,5 mg/m³

EN OEL 8-hour fixed for reference time measured or calculated time weighted average (TWA): 2,5 mg/m³

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Protective chlothing.



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Respiratory protection

Required when dusts occur.

Recommended Filter type: Filter B-(P3).

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Crystal
Colour	Colorless
Odour	Odorless
Odour threshold	Not applicable.
pH value	10.0 - 11.0 40 g/l 20 °C
Melting point/freezing point	995 °C 1.013 hPa
Freezing point	No information.
Initial boiling point and boiling range	1,695 °C 1,013 hPa
Flash point	Not applicable.
Evaporation rate	No information.
Flammability (solid, gas)	It is not flammable.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	1 hPa 1,070 °C
Vapour density	No information.
Density	2.8 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	40 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	Not applicable.
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

It emits very toxic gas in contact with acids.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Forms dangerous gas or vapor in contact with acids.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Glass, various metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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Acute oral toxicity

LD50 Rat: approximately 148.5 mg/kg

US-EPA

(ECHA)

Symptoms: If swallowed, there is a risk of perforation of the esophagus and stomach, with severe burning of the mouth and throat.

Acute inhalation toxicity

Symptoms: Possible damages:., mucosal irritations, Cough, After latency period:., Pulmonary edema

Skin irritation

Causes skin irritation.

It causes delayed healing wounds.

Eye irritation

Eyes - Rabbit

Result: Eye irritation - 24 h

Remarks: Moderate eye irritation

11.2 Additional information

After absorption:

Heartbeat irregularities, nausea, respiratory arrest, convulsions, unconsciousness, death.

May cause irritation and burning after contact with skin, mucous membranes and eyes.

Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 *Gambusia affinis* (mosquito): 925 mg/l; 96 h

(IUCLID)

LC50 - *Oncorhynchus mykiss* (Rainbow trout) - 200 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 *Daphnia magna* (Water flea): 338 mg/l; 48 hours

(IUCLID)

Toxicity to algae (algae)

IC50 *Desmodesmus subspicatus* (green algae): 850 mg/l; 72 hours

(IUCLID)

Toxicity to bacteria

EC0 *Pseudomonas putida*: 231 mg/l; 16 h

(IUCLID)

EC50 active waste: 2,930 mg/l; 3 hours

ISO 8192

(IUCLID)

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

It is dangerous for drinking water supplies.

Discharge into the environment should be prevented.



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SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 1690	UN 1690	UN 1690	UN 1690	UN 1690
14.2 UN proper shipping name SODIUM FLUORIDE, SOLID	SODIUM FLUORIDE, SOLID	SODIUM FLUORIDE, SOLID	SODIUM FLUORIDE, SOLID	SODIUM FLUORIDE, SOLID

14.3 Transport hazard class(es)

6.1	6.1	6.1	6.1	6.1
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14.4 Packing group

III	III	III	III	III
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14.5 Environmental hazards

NO	NO	NO	NO	NO
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No information available. No information available. No information available. No information available. No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

- H301 Toxic if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER
Certificate Number and Date: 11.29.03 & 11 Şubat 2020
Communication information: 05069903686



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