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

· **Informations to product No. 2447**

· **Product name:**

Natriumfluorid

Natrii fluoridum

Sodium fluoride

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· **P-Phrases:**

P281 Use personal protective equipment as required.

P301 IF SWALLOWED:

P330 rinse mouth.


P302 IF ON SKIN:

P352 Wash with plenty of soap and water.

P308 IF exposed or concerned:

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Acute Tox. 3

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Skin Irrit. 2

Eye Irrit. 2

3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

7681-49-4 Sodium fluoride

• **EINECS-No.:** 231-667-8

• **Index-No.:** 009-004-00-7

• **REACH Reg. No.:** 01-2119539420-47-0000

• **INCI-Name:** Sodium Fluoride

4 First aid measures


- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If irritation continues, call in ophthalmologist..
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.
- **Medical advice:**
- **The following symptoms might occur:** Systemic effect: Pains, Vomiting, Cramps, Shock, Cardiac arrhythmias, Respiratory paralysis, death.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: Hydrogen fluoride.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid development of dusts and contact with substance.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.
- **General information:** Sodium fluoride can be neutralized with a suspension of calcium carbonate and sodium carbonate: Precipitation of calcium fluoride.

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7 Handling and storage

- **Handling:**
 - **Advice on safe handling:** Avoid dust formation.
 - **Storage:**
 - **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Good ventilated. Accessible only for professional persons.
 - **Advices on common storage:** Do not store together with acids.
- TRGS 514 "Storage of toxic and very toxic substances ..."

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

Sodium fluoride TRGS 900: MAK 1 mg/m³ Fluorine
EU ELV: Average concentration over time: 2,5 mg/m³

- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber or latex.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties


- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 990 °C
- **Boiling point / boiling range:** 1704 °C
- **Flash point:** not relevant
- **Vapour pressure:** not relevant
- **Density:** (20 °C) 2,7 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 42 g/l
- **pH-range:** (40 g/l, 20 °C) ca. 8 - 10

10 Stability and reactivity

- **Materials to avoid:** Acids: release of hydrogen fluoride.
- **Hazardous decomposition products:** hydrogen fluoride.
- **Additional information:** Protect from moisture.

11 Toxicological information

- **Acute toxicity:**
LD50 (rat, oral): 52 mg/kg
LD50 (rat, dermal): 175 mg/kg
- **Primary irritating effect:**
- **on skin:** Strong irritations.

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- **on eyes:** Strong irritations, Danger of corneal clouding.
- **on respiratory organs:** Irritations. Caughing, Respiratory insufficiency.
- **after swallowing:** Burnings in mouth and oesophagus.
- **Sub-acute / chronic toxicity:** After resorption: Cramps, Unconsciousness, Cardiac arrhythmias, respiratory paralysis, Shock. Chronic effect: Harmful effect on bone marrow.
- **Additional toxicological informations:** Causes slow-healing wounds.

12 Ecological information

- **Aquatic toxicity:**
Fishes: Cyprinodon variegatus LC50 > 500 mg/l/96h
Gambusia affinis LC50 925 mg/l/96h
Lepomis macrochirus LC50 > 530 mg/l/96h
Algae: Desmodesmus subspicatus EC50 850 mg/l/72h
Bacteria: Activated sludge EC50 2930 mg/l/3h
Daphnia: Daphnia magna 338 mg/l/48h
- **General advices:** Prevent from leaking into ground water, environment waters or drainage.
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations


- **Product:**
- **Recommendation:** Disposal as pharmaceutical waste or inorganic laboratory chemical waste
- **Verpackung:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Sodium fluoride, solid
- **Class:** 6.1
- **UN-number:** 1690
- **Packing group:** III
- **Classification code:** T5
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 60
- **Special provisions (Chapter 3.3 ADR):** -
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-A
- **Properties:** -

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**
The product is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS06
- **Signal word:** Danger
- **H-Phrases:**

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• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 6.1D

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.