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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.02.2024 Version number 1.00 Revision: 19.02.2024

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

· Product identifier

· Trade name: Sodium fluoride

· Article number: 2447

• CAS Number: 7681-49-4 • EC number:

231-667-8 Index number: 009-004-00-7

- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

**CAELO** 

Caesar & Loretz GmbH

Herderstr. 31 D-40721 Hilden GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

#### 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 3 H301 Toxic if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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#### · Hazard pictograms



#### · Signal word Danger

#### · Hazard statements

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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

regulations.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

· Determination of endocrine-disrupting properties Not applicable.

#### 3 Composition/information on ingredients

· Substances

· CAS No. Description

CAS: 7681-49-4 sodium fluoride

· Identification number(s)

**EC number: 231-667-8** 

· Index number: 009-004-00-7

## 4 First aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Bring the person out of the contaminated area to fresh air.

Call a doctor immediately.

Show product-label or this MSDS.

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· After skin contact:

Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Do not induce vomiting; call for medical help immediately.
- · Most important symptoms and effects, both acute and delayed

Vomiting

Cramp

Cardiovascular disorders

Apnea

Death

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Avoid contact with the substance.

Avoid formation of dust.

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

Take up dry. Clean up with water.

Dispose contaminated material as waste according to section 13.

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

- · Precautions for safe handling Thorough dedusting.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

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- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Store receptacle in a well ventilated area.
- · Storage class:

TRHS 510: 6.1 D non-combustible acutely toxic substances or substances with chronic effects

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

## 8 Exposure controls/personal protection

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

CAS: 7681-49-4 sodium fluoride

OEL Long-term value: 2.5 mg/m<sup>3</sup>

as F, IOELV

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

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.

- Respiratory protection: Dust protection mask.
- · Hand protection Protective gloves
- · Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Odour:
Odourless
Odour threshold:
Not determined.

· Melting point/freezing point: 996 °C

· Boiling point or initial boiling point and boiling

range 1,696 °C

· Flammability Product is not flammable.

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· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.
pH Not applicable.

Viscosity:

Kinematic viscosityDynamic:Not applicable.Not applicable.

·Solubility

• water at 20 °C: 42 g/l

· Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 1077 °C: 1 hPa

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Particle characteristics
 2.76 g/cm³
 Not determined.
 Not applicable.
 Not determined

· Other information

· Appearance:

· Form: Crystalline

Important information on protection of health and environment, and on safety.

· **Ignition temperature:** Not determined.

• **Explosive properties:** Product does not present an explosion hazard.

Change in condition

· Evaporation rate Not applicable.

 $\cdot$  Information with regard to physical hazard

classes

· **Explosives** Void Void

Flammable gasesVoidAerosolsVoid

Void • Oxidising gases Void

· Gases under pressure Void

Void · Flammable liquids Void

Void

· Flammable solids Void Void

· Self-reactive substances and mixtures Void Void

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· Pyrophoric liquids	Void	(0
	Void	
· Pyrophoric solids	Void	
	Void	
· Self-heating substances and mixtures	Void	
	Void	
· Substances and mixtures, which emit flamn	nable	
gases in contact with water	Void	
	Void	
· Oxidising liquids	Void	
	Void	
· Oxidising solids	Void	
	Void	
· Organic peroxides	Void	
	Void	
· Corrosive to metals	Void	
	Void	
Desensitised explosives	Void	
	Void	

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions Reacts with acids.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Hydrogen fluoride

### 11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Toxic if swallowed.
- LD/LC50 values relevant for classification:

Oral LD50 52 mg/kg (rat)

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59,

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paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

## 12 Ecological information

- · Toxicity
- Aquatic toxicity:

EC50 43 mg/L (Algae)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- **Endocrine disrupting properties**

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- Other adverse effects
- · Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- · **Recommendation:** Disposal must be made according to local regulations.

## \*14 Transport information

· UN number or ID number

· ADR, IMDG, IATA UN1690

· UN proper shipping name

· ADR

1690 SODIUM FLUORIDE, SOLID
· IMDG

· IATA

1690 SODIUM FLUORIDE, SOLID

SODIUM FLUORIDE, SOLID

Sodium fluoride, solid

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 6.1 Toxic substances.

· Label 6.1

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· Packing group

· ADR, IMDG, IATA

• Environmental hazards: Not applicable.

· Special precautions for user Warning: Toxic substances.

· Hazard identification number (Kemler code): 60 · EMS Number: F-A,S-A

· Maritime transport in bulk according to IMO

**instruments** Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

· IMDG

· Limited quantities (LQ) 5 kg

· UN "Model Regulation": UN 1690 SODIUM FLUORIDE, SOLID, 6.1, III

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII

Not listed

Conditions of restriction: 75

 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

- · National regulations:
- · Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 6.1 D non-combustible acutely toxic substances or substances with chronic effects

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- · Reasons for alterations This version replaces all old versions.
- Date of previous version: 19.02.2024
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

MAL-Code: Måleteknisk Arbejdshygjejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 · \* Data compared to the previous version altered.

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