

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

NATRII FLUORIDUM

EN

FORM-06-14-01 (V00)

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

| | |
|---------------|--------------------------------------------------------------------------------------------------|
| Product name: | Sodium fluoride Natrii fluoridum Natriumfluoride Sodium (fluorure de) Natriumfluorid |
| N° CAS: | 7681-49-4 |
| N° EC: | 231-667-8 |

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

| | |
|------------------|------------------------------------------------|
| Identified uses: | Active Pharmaceutical Ingredient or Excipient. |
|------------------|------------------------------------------------|

1.3 Details of the supplier of the safety data sheet

| | |
|------------|-------------------------------------------------------------------------------------|
| Company: | FAC SECUNDUM ARTEM NV Oostmalsebaan 1c (unit 5) 2960 Sint-Lenaarts Belgium |
| Telephone: | (+32) (0)3 457 11 76 |
| Email: | info@magis-pharma.be |
| Web page: | www.magis-pharma.be |

1.4 Emergency telephone number

| | | |
|----------------------------|-------------------------|--------------------------|
| Public utility foundation: | Belgisch Antigifcentrum | Centre Antipoisons Belge |
| Telephone: | (+32) (0)70 245 245 | (Service 24/7) |
| Web page: | www.antigifcentrum.be | www.centreantipoisons.be |

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

| | |
|---------------|------|
| Acute Tox. 3 | H301 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Danger

Hazard statements:

H301 Toxic if swallowed.

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| | |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| EUH032 | Contact with acids liberates very toxic gas. |
| Precautionary statements: | |
| 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 present and easy to do – continue rinsing. |
| P308+P310 | IF exposed or concerned: Immediately call a POISON CENTER or doctor/physician. |
| Additional applicable label elements: | Not applicable. |

2.3 Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| | |
|--------------------|----------------------------------------------------|
| Product name: | Sodium fluoride |
| IUPAC name: | Sodium fluoride |
| Synonyms: | Florocid Zymafluor |
| N° CAS: | 7681-49-4 |
| N° EC: | 231-667-8 |
| Molecular Formula: | NaF |
| Content: | 98.5 per cent to 100.5 per cent (dried substance). |

3.2 Mixtures

It contains no other components or impurities that may influence the classification of the product.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General notes: | Consult a doctor. Show the safety data sheet to the doctor on duty. |
| After inhalation: | Remove to fresh air. If breathing is irregular, call a physician immediately. Only give artificial respiration if breathing stops or under medical supervision. |
| After skin contact: | Wash immediately with plenty of soap and water for at least 15 minutes. Remove all contaminated clothing immediately. Get medical attention if irritation develops and persists. |
| After eye contact: | Remove contact lenses and flush immediately with plenty of water, including under eyelids, for at least 15 minutes. Get medical attention. |
| After ingestion: | If conscious, give the victim plenty of water to drink. Never give anything by mouth to an unconscious person. Call a physician immediately. |

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects due to the substances contained, see section 11.

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4.3 Indication of any immediate medical attention and special treatment needed

Follow medical advice.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, carbon dioxide, sand, water mist.
Neighbouring fires (containers exposed to fire): Water spray or fog.

Unsuitable extinguishing media: Direct water jet.

5.2 Special hazards arising from the substance/mixture

Hazardous by-products are generated on exposure in case of fire.
Avoid breathing combustion products.

5.3 Advice for firefighters

Surrounding fires: Cool containers with water to prevent decomposition of product and development of potential health hazards. Always use full fire protection. Collect water from entering sewage system. Dispose of contaminated water used for extinguishing and residues in accordance with current regulations.

Protection against fire: Helmet with visor, flame retardant clothing (jacket and trousers with straps around the arms, legs and waist), gloves (fireproof and dielectric), a mask with face mask covering the whole face of the operator or the car (self shield) in the case of large amounts of smoke.

Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

For exposure control and personal protective measures, see section 8.
Use personal protective equipment.
Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

For emergency responders

For exposure control and personal protective measures, see section 8.
Use personal protective equipment.
Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

6.2 Environmental precautions

Prevent product from entering sewers, surface and ground water.

6.3 Methods and material for containment and cleaning up

Collect and prepare for disposal without creating dust.
Store in suitable, closed containers for disposal.

6.4 Reference to other sections

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For exposure control and personal protective measures, see section 8.

For waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------|
| Precautions for safe handling: | Avoid contact with eyes and skin. Avoid formation of dust and aerosols. Normal fire precautions. |
| Personal protection: | Not available. |
| Technical protective measures: | Adequate extraction should be provided where dust is formed. |
| Handling: | Not available. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Storage: | Not available. |
| Conditions for safe storage, including any incompatibilities: | Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. |
| Storage – away from: | Not available. |

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not available.

8.2 Exposure controls

Appropriate engineering control

Since the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation at the workplace by effective local suction. When choosing personal protective equipment, ask your chemical suppliers if this is necessary. Personal protective equipment must be CE-marked for compliance with applicable regulations. Provide an emergency shower with a viscoelastic tray.

Hygiene measures: Handle with proper industrial hygiene precautions, and observe safety practices. Wash hands before breaks and after finishing work.

Individual protection measures

| | |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection: | Protective face shields and safety goggles according to EN166. |
| Skin protection: | Choose body protection according to the quantity and concentration of the hazardous substance in the workplace. |
| Hand protection: | Handle with gloves. The selected protective gloves must comply with the specifications of EU Directive 89/686/EEC and the derived EN 374 standard. |
| Respiratory protection: | Where risk assessment shows that air-purifying respirators are appropriate, use dust mask type N95 (USA) or type P1 (EN 143). Use respirators and components tested and approved under appropriate governmental standards such as NIOSH (US) or CEN (EU). |

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Thermal hazards: Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|-----------------------------------------------|------------------------------------------------------|
| Appearance: | White or almost white powder or colourless crystals. |
| Odour: | Odourless. |
| Odour threshold: | Not available. |
| pH: | (100 g/L): 8 – 12 |
| Melting/freezing point: | > 998 °C |
| Initial boiling point: | Not available. |
| Boiling range: | Not available. |
| Flash point: | Not available. |
| Evaporation rate: | Not available. |
| Flammability (solid/gas): | Not available. |
| Upper/lower flammability or explosive limits: | Not available. |
| Vapour pressure: | Not available. |
| Vapour density: | Not available. |
| Relative density: | Not available. |
| Solubility: | Practically insoluble in ethanol (96 per cent). |
| Solubility in water: | Soluble in water. 40 g/L (20 °C) |
| Partition coefficient (n-octanol/water): | Not available. |
| Auto-ignition temperature: | Not available. |
| Decomposition temperature: | Not available. |
| Viscosity: | Not available. |
| Explosive properties: | Not available. |
| Oxidising properties: | Not available. |

9.2 Other information

Molecular Weight: 41,99 g/mol
VOC (Directive 199/13/EC): 0.0 %.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special conditions. Stable under recommended handling and storage conditions (see section 7).

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10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

No unusual reactions are expected under normal conditions of use and storage.

10.4 Conditions to avoid

None in particular. However, be aware of the usual caution for chemicals.

10.5 Incompatible materials

Not available.

10.6 Hazardous decomposition products

Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| | |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity: | Oral LD ₅₀ (rat): 32 000 mg/kg Acute Intravenous Toxicity: Toxic if swallowed. |
| Skin corrosion/irritation: | Causes skin irritation. |
| Serious eye damage/irritation: | Causes serious eye irritation. |
| Respiratory/skin sensitisation: | Not available. |
| Germ cell mutagenicity: | Not available. |
| Carcinogenicity: | No component of this product is identified as a probable, possible or confirmed International Agency for Research on Carcinogens (IARC) human carcinogen at levels greater than or equal to 0.1%. |
| Reproductive toxicity: | Not available. |
| Summary of evaluation of the CMR properties: | Not available. |
| STOT-single exposure: | Not available. |
| STOT-repeated exposure: | Not available. |
| Aspiration Hazard: | Not available. |
| Other: | Not available. |

11.2 Additional information on potential adverse human health effects and symptoms

| | |
|---------------|---------------------------------------------------------------------|
| Eye contact: | May cause eye irritation. |
| Skin contact: | Harmful if absorbed through the skin. May cause skin irritation. |
| Inhalation: | Harmful if inhaled. May cause respiratory tract irritation. |
| Ingestion: | Harmful if swallowed. |
| Aspiration: | Not available. |

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

Use in accordance with good working practices, avoiding dispersal of the product into the environment. Notify the competent authorities if the product has reached watercourses or if it has contaminated soil or vegetation.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Consider all federal, state and local environmental regulations. Contact a licensed professional waste disposal service for disposal of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated container: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : 1690

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : ADR/RID: SOLID (SODIUM FLUORIDE)
IMDG: SOLID (SODIUM FLUORIDE)
IATA: SOLID (SODIUM FLUORIDE)

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : 6.1

14.4 Packing group

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : III

14.5 Environmental hazards

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ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : It is not dangerous for the environment.

14.6 Special precautions for user

| | | | |
|----------|------------------|-----------------------------|---------------------------|
| ADR/RID: | HIN – Kemler: 60 | Limited Quantity (LQ): 5 Kg | Restriction Code: (E) |
| IMDG: | EMS: F-A, S-A | Limited Quantity (LQ): 5 Kg | |
| IATA: | Cargo: | Maximum Quantity: 200 Kg | Packing Instructions: 677 |
| | Pass.: | Maximum Quantity: 100 Kg | Packing Instructions: 670 |

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

Not available.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Toxic

Risk phrases:

R25 Toxic if swallowed.
R32 Contact with acids liberates very toxic gas.
R36/38 Irritating to eyes and skin.

Safety phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of soap and water.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

| | |
|--------------|-------------------------------------------------------------------------------------|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society) |
| EC (number): | European Community (number) |
| IATA: | International Air Transport Association |
| ICAO: | International Civil Aviation Organization |
| IMDG: | International Maritime Code for Dangerous Goods |
| IUPAC: | International Union of Pure and Applied Chemistry |

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| | |
|--------------|-------------------------------------------------------------------------------|
| PBT: | Persistent, Bioaccumulative and Toxic substance |
| RID: | Regulations Concerning the International Transport of Dangerous Goods by Rail |
| STOT: | Specific Target Organ Toxicity |
| UN (number): | United Nations (number) |
| vPvB: | very Persistent and very Bioaccumulative |

16.3 Key literature references/sources for data

European Chemicals Agency.
<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available.

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

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