Vickers Laboratories Ltd - Safety Data Sheet

1413

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 1413

Product Name SODIUM FLUORIDE pure

CAS Number 7681-49-4

REACH Registration No 01-2119539420-47-XXXX

Molecular Formula Naf =41.99

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 3 (oral)

Skin corrosion/irritation, category 2

H301: Toxic if swallowed.

H315: Causes skin irritation.

Serious eye damage/irritation, category 2

H319: Causes serious eye irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



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

Wear protective gloves / protective clothing / eye protection / face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. IF SWALLOWED: Immediately call a POISON CENTER or **Precautionary Statements**

doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do and continue rinsing. IF ON SKIN: Wash with plenty of soap and water.

Supplemental Hazard Information (EU)

Contact with acids liberates very toxic gas.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium Fluoride	7681-49-4 231-667-8	01-2119539420-47-XXXX	<99%	Acute Tox. 3 (O), Skin Irrit. 2, Eye Irrit. 2

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL Eves

ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-

Remove from exposure. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION. Inhalation

Ingestion If conscious wash out mouth with water. Do not induce vomiting. OBTAIN MEDICAL ATTENTION

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray. Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Evacuate area immediately. Only re-enter area with full protective clothing and breathing apparatus.

6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Sweep up and transfer to a suitable container for disposal. Wash area down with copious amounts of water.

Minor Spillage Sweep up and transfer to a suitable container for disposal. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Keep well protected from ingress of water and well separated from acids

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

	Component	CAS No	Concentration	Workplace Exposure Limits				
				Long Term	Long Term (8hr TWA)		Short Term 15min period)	
Γ	Sodium Fluoride	7681-49-4	<99%	-	2.5 mg/m-3	-	7.5 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Hand Protection Use PVC gauntlets.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White crystalline, deliquescent powder.

Odour
pH 10 @ 20°C 4%
Boiling Point 1705°C
Melting Point 993°C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure 1mmHg @ 77°C

Relative Density 2.7800 Water Solubility 4%

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Avoid ingress of water and contact with acids.

10.5 Incompatable Materials Platinum and bromine trifluoride.

10.6 Hazardous Decomposition May give off toxic and acidic fumes in contact with acids or if heated to decomposition.

roducts

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The solid and solutions will be irritating to the eyes.

Skin The solid and solutions will be irritating to the skin.

LD50 Skin >2000mg/kg Rat

Ingestion Toxic if swallowed. Ingestion may cause severe internal irritation and damage, nausea, vomiting, abdominal pains

and diarrhoea.

LD50 Oral 52mg/kg Rat

Inhalation Inhalation of the dust can result in symptoms similar to those due to ingestion.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity No information is available but unlikely to be a carcinogen.

Mutagenicity No information is available.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Will persist in the form of insoluble fluorides. Harmful to aquatic life.

LC50 Algal 850mg/l Algae (72 hours)

LC50 Crustacea 96mg/l Daphnia magna (48 hours)
LC50 Fish 200mg/l Rainbow Trout (96 hours)

12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Transfer to a large container and carefully add soda ash and calcium hydroxide at intervals. Decant liquid after 24

hours and neutralise hydrochloric acid, wash to drain with lots of water. The remaining sludge should be removed

by a licensed contractor.

Section 14. Transport Information

14.1 UN Number 1690

14.2 Proper Shipping Name Sodium fluoride, solid

14.3 Transport classes

UN classification 6.1 Subsidiary hazard(s) None Transport category 2 ADR Hazard ID 60 **Tunnel Restriction Code** Е 14.4 Packing Group Ш

14.5 Environment hazards See section 12.

14.6 Special precautions for

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

No special precautions required.

Classification Acute toxicity, category 3 (oral); Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2

Signal word Danger

Hazard Pictograms



Hazard Statements

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

Precautionary Statements P280, P270, P264, P301+P310, P305+P351+P338, P302+P352

Wear protective gloves / protective clothing / eye protection / face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do and continue rinsing. IF ON SKIN: Wash with plenty of soap and water.

Supplemental Hazard Information (EU)

EUH032

Contact with acids liberates very toxic gas.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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