

# Camlab Limited – Material Safety Data Sheet


## 1. Identification

Product Code CC/1413-CH

Product Name **SODIUM FLUORIDE pure**

Molecular Formula **NaF =41.99**

CAS Number **7681-49-4**

Supplier: **CAMLAB LIMITED**  
**Norman Way Industrial Estate  
Over  
Cambridge  
England  
CB4 5WE**

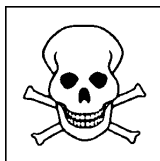
Phone **01954 233110**  
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**24hr 112**  
**(Have this document to hand)**

## 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Fluoride, inorganic (as F)	7789-23-3	232-151-5	< 44.4%	T : R23/24/25	WEL

## 3. Hazards Identification



Toxic if swallowed. Contact with acids liberates very toxic gas. Irritating to eyes and skin.

## 4. First Aid Measures

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

Skin If calcium gluconate gel is available immediately rub into all affected areas and massage until pain goes. If not wash with soap and water for 30 minutes. OBTAIN MEDICAL ATTENTION.

Inhalation 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.

Ingestion If conscious give plenty of water to drink. Keep warm and at rest. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

## 5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

Extinguishing Media Water spray.

Unsuitable Media Nothing specified.

## 6. Accidental Release Measures

Personal Protection	Evacuate area immediately. Only re-enter area with full protective clothing and breathing apparatus.
Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Shovel/sweep up into container for removal Cover area of spill with calcium hydroxide then wash to drain with copious amounts of water.
Minor Spillage	Cover area of spill with calcium hydroxide then wash to drain with copious amounts of water.

## 7. Storage & Handling

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

## 8.1 Workplace Exposure Limits

Component	CAS No	Workplace Exposure Limits				Maximum Exposure Limits			
		Long Term		Short Term		Long Term		Short Term	
		ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>
Fluoride, inorganic (as F)	7789-23-3	-	2.500	-	-	-	-	-	-

## 8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits.
Hands	Use PVC gauntlets.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

## 9. Physical & Chemical Properties

Appearance	White crystalline, deliquescent powder.
Odour	Odourless.
pH	7 @ 20 °C
Boiling point	1705.0 °C
Melting point	993.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Pressure	1 mm Hg @ 1077,C
Relative Density	2.7800 °C
Water Solubility	4%

## 10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Avoid ingress of water and contact with acids.
Materials to Avoid	Platinum and bromine trifluoride.
Hazardous Decomposition Products	May give off toxic and acidic fumes in contact with acids or if heated to decomposition.

## 11. Toxicological Information

Eyes	The solid and solutions will be extremely irritating to eyes and can cause chemical eye burns.
Skin	The solid and solutions will Cause severe irritation and burns to the skin.
LD50 Skin	LD10 Mouse 300mg/Kg
Ingest	Ingestion may cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea.
LD50 Ingest	Oral Rat 114mg/Kg
Inhalation	Prolonged exposure to dust or fume concentrations above the occupational exposure limits will Inhalation of the dust can result in symptoms similar to those due to ingestion.
Carcinogenicity	No information is available but unlikely to be a carcinogen.
Mutagenicity	No information is available.
Reproductive Effects	None identified.

## 12. Ecological

High concentrations are toxic to aquatic life. Fish toxicity: 419ppm/96hr (mosquito fish)  
.LC50 >300ppm/48hr (shrimp) salt water. Will persist in the form of insoluble fluorides.

## 13. Disposal Considerations

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.
Contaminated Packaging	Use a licensed waste disposer.

## 14. Transport Information

Proper Shipping Name	Sodium Fluoride
UN Number	1690
UN Classification	6.1 Toxic
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	2
Marine pollutant	No
ADR Hazard ID	60



## 15. Regulatory Information

Labelling  
Classification Toxic.

Label Symbols



Risk & safety Phrases Toxic if swallowed. Contact with acids liberates very toxic gas. Irritating to eyes and skin. Keep locked up and out of reach of children. Do not breath dust. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label).

EEC Number 231-667-8

## 16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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