

**1. Identification**

Product Code **CS3794-52**

Product Name **SODIUM FLUORIDE L.R.**

Molecular Formula **NaF =41.99**

CAS Number **7681-49-4**

Supplier:  **BEECROFT & PARTNERS**  
Northfield Road  
Rotherham  
South Yorkshire

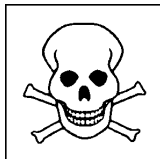
Phone **01709-377881**

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Emergency Telephone **08:30-1700 01709-377881**  
**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, as F | 7789-23-3 | 232-151-5 | < 44.4%  | T : R23/24/25                 | OES           |

**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.<br><br>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 Occupational Exposure Limits

| Component      | CAS No    | Occupational Exposure Standard |        |            |        | Maximum Exposure Limits |        |            |        |
|----------------|-----------|--------------------------------|--------|------------|--------|-------------------------|--------|------------|--------|
|                |           | Long Term                      |        | Short Term |        | Long Term               |        | Short Term |        |
|                |           | ppm                            | mg m-3 | ppm        | mg m-3 | ppm                     | mg m-3 | ppm        | mg m-3 |
| Fluoride, as F | 7789-23-3 | -                              | 2      | -          | -      | -                       | -      | -          | -      |

## 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                                  |
| 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 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            | LDlo 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             |
| Marine pollutant     | No              |
| ADR Hazard ID        | 60              |

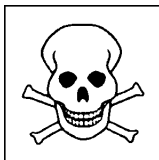


## 15. Regulatory Information

|                |        |
|----------------|--------|
| Labelling      | Toxic. |
| Classification |        |

Label Symbols

T



|                       |                                                                                                                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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