

Section 1. Product and Company Identification

Product Name Sodium Fluoborate
CAS Number 13755-29-8

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EMERGENCY RESPONSE NUMBER
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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification

Skin irritation - Category 2
Serious eye damage - Category 1
Specific target organ systemic toxicity- single exposure - Category 3 (Respiratory system)
Specific target organ systemic toxicity - repeated exposure - Category 1 (Bone)
Specific target organ systemic toxicity - repeated exposure (Oral) - Category 2

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H372 Causes damage to organs (Bone) through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary Statements

Prevention

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear eye protection/ face protection.



P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Other Hazards: None known

Section 3. Composition / Information on Ingredients

Common Name Sodium Fluoborate
Synonym(s) Sodium Tetrafluoroborate
CAS Number 13755-29-8

COMPONENT	CAS NUMBER	CONCENTRATION
Sodium Fluoborate	13755-29-8	80 - 100%

Section 4. First Aid Measures

General advice: Call a physician or poison control center immediately.

Show this material safety data sheet to the doctor in attendance.

Inhalation: Move to fresh air.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Consult a physician.

Ingestion: If swallowed, call a poison control center or doctor immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed: Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure if swallowed.

Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing

Notes to physician: For specialist advice physicians should contact the Poison Control Center.

Section 5. Firefighting Measures

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No information available.

Hazardous combustion products: Boron oxides; hydrogen fluoride

Specific extinguishing methods: Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions: Should not be released into the environment.

Methods and materials for containment and cleaning up: Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Shovel or sweep up. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

Section 7. Handling and Storage

Advice on safe handling: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid breathing dust.

Conditions for safe storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

Recommended storage temperature: -5 to 40°C

Section 8. Exposure Controls / Personal Protection

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection: In case of mist, spray or aerosol exposure, wear suitable personal respiratory protection and protective suit. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation, wear

suitable respiratory equipment.

Hand protection: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Follow the instructions for use issued by the producer.

Eye protection: Tightly fitting safety goggles. Face-shield. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection: Impervious clothing; Boots

Protective measures/Engineering measures: Ensure adequate ventilation, especially in confined areas.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using do not eat, drink, or smoke. Avoid breathing dust.

Section 9. Physical and Chemical Properties

Appearance: Solid

Color: White to light-grey

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability (solid, gas): Not classified as a flammability hazard

Upper explosion limit: N/A

Lower explosion limit: N/A

Vapor pressure: N/A

Relative vapor density: N/A

Density: 2.42 - 2.52 g/cm³

Water solubility: Soluble

Partition coefficient (n-Octanol/water): N/A

Auto-ignition temperature: N/A

Thermal decomposition: > 384°C

Viscosity - dynamic: N/A

Viscosity - kinematic: N/A

Oxidizing properties: N/A

Section 10. Stability and Reactivity

Reactivity: None under normal processing

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.



Conditions to avoid: Avoid dust formation. To avoid thermal decomposition, do not overheat.
Exposure to moisture.

Incompatible materials: No data available

Hazardous decomposition products: No hazardous decomposition products are known.

Section 11. Toxicological Information

Information on likely routes of exposure: Inhalation; Ingestion; Eye contact; Skin Absorption

Acute toxicity: Not classified based on available information.

Remark: The acute toxicity estimate (ATE) of the ingredients are derived using the LD50/LC50 values where available.

Skin corrosion/irritation: Causes skin irritation.

Product: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation: Causes serious eye damage.

Product: May cause irreversible eye damage.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

IARC: No ingredient of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No ingredient of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA specified: No ingredient of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No ingredient of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

Reproductive Toxicity: Not classified based on available information.

STOT - single exposure: May cause respiratory irritation.

Target Organs: Respiratory system

STOT - repeated exposure: Causes damage to organs (Bone) through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure if swallowed.

Target Organs: Bone

Aspiration toxicity: Not classified based on available information.



Further information

Remarks: No data available

Section 12. Ecological Information

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

Product: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

International Regulation

UNRTDG: Not regulated as a dangerous good

IATA-DGR: Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

Domestic regulation

DOT/49 CFR: Not regulated as a dangerous good

Section 15. Regulatory Information

TSCA 5a: Not relevant

TSCA_12b: Not relevant

DEA: Not applicable

EPCRA- Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity: This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Acute Health Hazard/Chronic Health Hazard



SARA302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know: No components are subject to Pennsylvania Right to Know Act.

New Jersey Right to Know: No components are subject to New Jersey Right to Know Act.

California Prop 65: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Remarks: Components which are only displayed in Section 15 are being reported for local regulatory purposes. These components are not displayed in Section 3 due to one or more of the following conditions being met: being present in the product at concentration(s) below threshold limit values for reporting, not considered hazardous materials, health hazards or because they do not contribute to the overall GHS Classification of the final product as required by OSHA HazCom 2012 final rule (29 CFR 1910.1200).

Substances currently restricted by WEEE/RoHS (European Directive 2002/96/EC, 2002/95/EC) or ELV (European Directive 2000/53/EC): No data available

Please note: Current legislation restricting the use of certain substances applies to "homogeneous material" in finished articles being supplied to the market. Substances deposited during surface finishing may have a composition (weight percent) higher than the weight percent of the substance in the operating solution from which the deposit is made.

HMIS Rating

Health: 3*

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 3

Flammability: 0

Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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