

Material Safety Data Sheet

WEGO CHEMICAL & MINERAL CORP

265 Great Neck Road
Great Neck, NY 11021

Date of Revision: 3/2000

SODIUM FLUORIDE

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: SODIUM FLUORIDE

Chemical Formula: NaF

CAS Number: 7681-49-4

Other Designations: Fluoridine; sodium monofluoride; disodium difluoride; sodium fluoride; Florocid

Derivation: Prepared by fusing cryolite with sodium hydroxide. Also made by adding equivalent amounts of sodium hydroxide or sodium carbonate to 40% hydrogen fluoride (instantaneous precipitation).

General Use: Used as an insecticide (particularly against ants and roaches); as a constituent of vitreous enamel and glass mixtures; as a stain-degreasing agent; in the fluoridation of drinking water; in dental laboratories; in removal of hydrogen fluoride (HF) from exhaust gases to reduce air pollution; for preserving wood, paper, and masonry; and for disinfecting fermentation apparatus in breweries and distilleries.

Emergency Telephone: 1-800-424-9308 (Chemtrac)

Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | EINECS/ELINCS | % wt or % vol |
|-----------------|------------|---------------|---------------|
| Sodium Fluoride | 7681-49-4 | 231-667-8 | 97 |

Trace Impurities:

| Ingredient | OSHA PEL | | ACGIH TLV | | NIOSH REL | | NIOSH |
|-----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|----------------|
| | TWA | STEL | TWA | STEL | TWA | STEL | IDLH |
| Sodium Fluoride | 2.5 mg P/m ³ | None estab. | 2.5 mg P/m ³ | none estab. | 2.5 mg P/m ³ | none estab. | none estab. |

Section 3 - Hazards Identification

☆☆☆☆ Emergency Overview ☆☆☆☆

DANGER! MAY BE FATAL IF SWALLOWED OR INHALED. AFFECTS RESPIRATORY SYSTEM, HEART, SKELETON, CIRCULATORY SYSTEM, CENTRAL NERVOUS SYSTEM AND KIDNEYS. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. IRRITATION EFFECTS MAY BE DELAYED. MOISTURE SENSITIVE.

| HMIS | |
|---------|---|
| H | 2 |
| F | 2 |
| R | 0 |
| PPE† | |
| †Sec. 8 | |

Potential Health Effects

Primary Entry Routes: Inhalation, skin contact.

Target Organs: Skin, eyes, and respiratory system.

Acute Effects

Inhalation: Causes severe irritation to the respiratory tract; symptoms may include coughing, sore throat, and labored breathing. May be absorbed through inhalation of dust; symptoms may parallel those from ingestion exposure. Irritation effects may not appear immediately.

Eyes: Eye irritant! May cause irritation and serious eye damage. Effects may not immediately appear.

Skin: Causes irritation, with redness and pain. Solutions are corrosive. Effects may not appear immediately.

Ingestion: Toxic! May cause salivation, nausea, vomiting, diarrhea, and abdominal pain. Symptoms of weakness, tremors, shallow respiration, cardopedal spasm, convulsions, and coma may follow. May cause brain and kidney damage. Affects heart and circulatory system. Death may occur from respiratory paralysis. Estimated lethal dose = 5-10 grams.

Carcinogenicity: Sodium fluoride is not listed as a carcinogen by the NTP, IARC, or OSHA.

Medical Conditions Aggravated by Long-Term Exposure: Populations that appear to be at increased risk from the effects of fluoride are individuals that suffer from diabetes insipidus or some forms of renal impairment.

Chronic Effects: Chronic exposure may cause mottling of teeth and bone damage (osteosclerosis) and fluorosis. Symptoms of fluorosis include brittle bones, weight loss, anemia, calcified ligaments, general ill health and joint stiffness.

Section 4 - First Aid Measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. CALL A PHYSICIAN IMMEDIATELY.