



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

SODIUM MONOFLUOROPHOSPHATE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc.	Emergency Number: Chemtrec	800-424-9300
135 Newbury Street		703-527-3887
Framingham, MA 01701	Information Number:	800-238-0001

Date: August 2007

Synonyms: None

CAS #: 10163-15-2

DOT Hazard Class: Not Regulated

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Sodium Monofluorophosphate 91.7% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

A fine white powder. Consumption of significant quantities of this product may be harmful due to fluoride content. Moderate eye irritant. Sodium Monofluorophosphate will react slowly in the presence of moisture above 625°C to form a hydrogen fluoride by-product which is highly corrosive.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation.

Eyes: May cause irritation or burning.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Not a hazard with normal industrial usage.

CARCINOGENICITY: Not Identifiable.

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

Inhalation: Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Wash out mouth with water.

On All Of The Above: Consult a physician if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Non Combustible (Dry product)

Flammable Limits: Non combustible (Dry product)

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: Hydrogen Fluoride formation is possible at temperatures > 625°C in the presence of moisture.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Store 1 pallet high to avoid compaction.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION cont'd

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: No air contamination limit for Sodium Monofluorophosphate, however, it is advisable to follow the manufacturer's in house limit which is TWA (8hrs) = 2.5 mg/m³.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: > 625°C (1157°F)

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Complete

pH: 7 in 10g/l solution

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Decomposes above 625°C in the presence of moisture yielding Sodium Pyrophosphate and Hydrogen Fluoride, a very corrosive by-product. The molten salt is very reactive to metal surfaces.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Fluoride (HF).

KEEP AWAY FROM: None Known

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral rat LD₅₀: 635 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Fluoride and Orthophosphates are formed slowly by hydrolysis in receiving waters. At the concentrations expected in effluents, the former will normally be precipitated harmlessly by calcium ions naturally present in the water. Orthophosphate may be precipitated or serve as a plant nutrient.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME:.....Sodium Monofluorophosphate

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Unlisted

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Immediate (acute)

SECTION 16 - OTHER INFORMATION

Reason for Issue: Changed Date

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