



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Magnesium Fluoride

INGREDIENTS: Magnesium Fluoride

PROUDUCT CLASSFIES AS: NON-HAZARDOUS

WARNING STATEMENT: None considered necessary

SECTION 1 – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 2260 C

MELTING POINT: 1248 C

VAP. PRESSURE: NA

VAP. DENSITY: (AIR=1): NA

APPEARANCE: COLORLESS TO WHITE SOLID

ODOR: NA

SOL IN WATER: INSOLUBLE

SP. GRAVITY: 3.148

SECTION 2 – FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Use Water, Carbon Dioxide, Foam or Dry Chemical

SPECIAL FIRE FIGHTING PROC: Positive pressure self-contained breathing apparatus and structural firefighters' protective clothing as required for other materials present.

SECTION 3 – REACTIVITY DATA

STABILITY: Stable under normal conditions of storage or use.

INCOMPATIBILTY: Hot material (>100C) or evaporation residue should not be brought into contact with water or moisture. Material may react to release hydrofluoric acid.

HAZARDOUS DECOMPOSITION PRODUCTS: MgO, HF, F-, toxic metal and fluoride fumes and particles.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions of storage or use.

SECTION 4 – HEALTH HAZARD DATA

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC): Causes skin and eye irritation. Inhalation may cause irritation of respiratory tract. Expected to cause coughing, wheezing and general on inhalation. Expected to cause nausea, diarrhea, and gastrointestinal upset if swallowed. Prolonged contact of evaporation residue with eyes or moist skin may cause server irritation.

MEDICAL COND AGGRAVATED BY EXPOSURE: Existing skin, kidney, skeletal, nervous system, or heart conditions.

ROUTES OF ENTRY: Eye and skin contact and inhalation are anticipated as possible routes of exposure. Ingestion is not expected.

SECTION 5 – FIRST AID PROCEDURES

EYES: Flush with flowing water for at least 15 minutes after contact. Call a physician if symptoms persist.

SKIN: Remove excess material and wash affected skin with soap and water. Gently dry area with a clean towel.

INHALATION: If exposed to excessive levels of dust or fumes, remove person to fresh air, keep person warm and quiet. If breathing is difficult, give oxygen. Seek medical help.

INGESTION: Induce vomiting if conscious and as directed by a physician. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 6 – SPECIAL HANDLING INFORMATION

HANDLING & STORAGE: Keep container tightly closed. Store in general chemical storage. Protect against physical damage. Handle carefully. Store away from incompatible materials. Avoid generating dust or vapors.

CONTROL MEASURES: Respiratory Protection: A NIOSH APPROVED RESPIRATOR AS NECESSARY. Ventilation: GENERAL; Protective Gloves: Impervious gloves made of chemically resistant materials are required. Use of a laboratory coat is also suggested. Eye Protection: Safety goggles or safety glasses with side shields are required.

WORK HYGIENIC PRACTICES: Wash thoroughly after handling. Do not take internally. Avoid breathing dust or vapor when generated. Mechanical ventilation of work areas should be provided where the material is being used.

SECTION 7 – TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Eye contact. Inhalation. Ingestion.

TOXICITY TO ANIMALS:

LD50: Not available. LC50: Not available.

CHRONIC EFFECTS ON HUMANS: Not available.

OTHER TOXIC EFFECTS ON HUMANS: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

SPECIAL REMARKS ON TOXICITY TO ANIMALS: Not available.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: Not available.

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS: Not available.