



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Lithium fluoride

CHEMICAL NAME: Not available.

CHEMICAL FORMULA: LiF

SECTION 1 – PHYSICAL/CHEMICAL CHARACTERISTICS

PHYSICAL STATE AND APPEARANCE: Solid. (Crystals solid.)

ODOR: Not available.

TASTE: Not available.

MOLECULAR WEIGHT: 25.94 g/mole

COLOR: Colorless.

pH (1% soln/water): Not available.

BOILING POINT: 1681°C (3057.8°F)

MELTING POINT: 845°C (1553°F)

CRITICAL TEMPERATURE: Not available.

SPECIFIC GRAVITY: 2.64 (Water = 1)

VAPOR PRESSURE: Not applicable.

VAPOR DENSITY: Not available.

VOLATILITY: Not available.

ODOR THRESHOLD: Not available.

WATER/OIL DIST. COEFF.: Not available.

IONICITY (in Water): Not available.

DISPERSION PROPERTIES: Not available.

SOLUBILITY: Very slightly soluble in cold water

SECTION 2 – FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY OF THE PRODUCT: Non-flammable.

AUTO-IGNITION TEMPERATURE: Not applicable.

FLASH POINTS: Not applicable.

FLAMMABLE LIMITS: Not applicable.

PRODUCTS OF COMBUSTION: Not available.

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: Not applicable.

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
FIRE FIGHTING MEDIA AND INSTRUCTIONS: Not applicable.
SPECIAL REMARKS ON FIRE HAZARDS: Not available.
SPECIAL REMARKS ON EXPLOSION HAZARDS: Not available.

SECTION 3 – REACTIVITY DATA

STABILITY: The product is stable.
INSTABILITY TEMPERATURE: Not available.
CONDITIONS OF INSTABILITY: Not available.
INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Not available.
CORROSIVITY: Non-corrosive in presence of glass.
SPECIAL REMARKS ON REACTIVITY: Not available.
SPECIAL REMARKS ON CORROSIVITY: Not available.
POLYMERIZATION: No.

SECTION 4 – HEALTH HAZARD DATA

POTENTIAL ACUTE HEALTH EFFECTS:
Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (irritant), of eye contact (irritant).

POTENTIAL CHRONIC HEALTH EFFECTS:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 5 – FIRST AID PROCEDURES

EYE CONTACT:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

SKIN CONTACT:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

SERIOUS SKIN CONTACT:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

INHALATION: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

SERIOUS INHALATION: Not available.

INGESTION:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

SERIOUS INGESTION: Not available.

SECTION 6 – SPECIAL HANDLING INFORMATION

PRECAUTIONS:

Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

STORAGE:

No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

SECTION 7 – TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Absorbed through skin. Eye contact. Inhalation. Ingestion.

TOXICITY TO ANIMALS: LD50: Not available. LC50: Not available.

CHRONIC EFFECTS ON HUMANS: The substance is toxic to lungs, mucous membranes.

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

SPECIAL REMARKS ON TOXICITY TO ANIMALS: Not available.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: Human: passes through the placenta, excreted in maternal milk.

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS: Not available