

ALUMINUM FLUORIDE

Section I

Kurt J. Lesker Company 1925 Worthington Avenue Clairton, PA 15025 Ph: 412/387-9200 Fax: 412/233-4275		Emergency Phone Numbers KJLC 800/245-1656 Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms Aluminum Fluoride, anhydrous			Date of Last Revision
Formula AlF ₃	Chemical Family	Chemical Abstract No. 7784-18-1	
TSCA		Calc. Molecular Wt. 83.98	

Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL
Aluminum Fluoride	7784-18-1		2.5mg/m ³	2.5mg/m ³

Section III Physical Data

Boiling Point (0°C): Sublimes	Density (gmcc): NA
Vapor Pressure: N/A	% Volatile by Volume: NA
Reaction with Water:	Evaporation Rate (H ₂ O -1): NA
Solubility in Water: Slightly soluble in cold or hot water	Melting Point (°C): 1260°C
Appearance and Odor: White crystalline powder	Other Comments:

Section IV Fire & Explosion Hazard Data

Flash Point (method) NA	Autoignition Temp. NA	Flammability NA	LEI NA	UEI NA
Extinguishing Media: Water spray, CO ₂				
Special Fire Fighting Procedures: Wear SCBA, at temperatures about 500°C product reacts with water to release hydrogen fluoride				
Unusual Fire and Explosion Hazards: NA				

Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled: Sweep or scoop up and remove. Avoid water contamination by not washing dust into waste system.
Waste Disposal Method (Consult federal, state or local authorities for proper disposal procedures.): Consult federal, state and local authorities for proper disposal procedures: Use licensed hazardous waste

removal company.

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, the Kurt J. Lesker Company makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon: User should satisfy himself that he had all current data relevant to his particular use.

ND = NO DATA FOUND

NA = NOT APPLICABLE

Section VI Health Hazard Data

Toxicity Data eye-rbt 500mg/24H SEV scu-frg LDLo: 1680mg/Kg		HMIS Hazard Rating Health: Flammability: Reactivity: Personal Protection:	
Route(s) of Entry	Inhalation:	Skin:	Ingestion:
Effects of Overexposure (acute and chronic) Inhalation: Inhalation of dust may cause pulmonary edema, congestion fluorosis, and irritation of respiratory tract. Dermal/Eye Contact: Eye Corrosivity: Irreversible., Sever skin and eye irritation. Other (specify): May cause kidney or liver damage with prolonged exposure. Acute: No effects for room temperature use. In use above about 500°C, in presence of water vapor, gas evolvedis very irritating to respiratory tract. Chronic: Principal effect is increased bone density as seen on X-ray. Inhalation of dust at levels twice the TLV over periods of 15 years or more can result in this X-ray change. At higher levels for longer periods, subsequently stiffness of joints can result. There are no know accompanying physiological effects.			
Medical Conditions Generally Aggravated by Exposure: ND			
Carcinogenicity:	NTP:	IARC Monographs:	OSHA Regulations:
Emergency and First Aid Procedures Ingestion: Do not induce vomiting, get medical attention Inhalation: Remove to fresh air, get medical attention Skin Contact: Flush with soap and water Eye Contact: Flush with plenty of water for at least 15 minutes, get medical attention			

Section VII Reactivity Data

Stable: X Unstable:	Conditions Contributing to Instability: ND
Incompatibility (materials to avoid): strong acids	
Hazardous Decomposition Products - Thermal and Other (list): HF	
Hazardous Polymerization May Occur: Will Not Occur:	Conditions to Avoid: NA

Section VIII Special Protective Information

Respiratory Protection (specify type). Use Only Niosh Approved Equip.: ND

Ventilation (always maintain exposure below permissible limits)

Local Exhaust: ND

Mechanical (general): ND

Special: ND

Other: ND

Protective Gloves: ND

Eye Protection: ND

Other Protective Equipment/Work Practices: ND

Section IX Special Precautions

Precautions to be Taken in Handling and Storing: ND

Transportation Requirements

DOT Class: ND

UN Number: ND

IMCO Class: ND

Other: ND