

# MATERIAL SAFETY DATA SHEET

Manufacturer:

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## SECTION 1 Product Identification

**CHEMICAL NAME:** Aluminum fluoride, anhydrous

**CAS REGISTRY NUMBER:** 7784-18-1

**FORMULA:** AlF<sub>3</sub>

**EINECS NUMBER:** 232-051-1

**CHEMICAL FAMILY:** metal halide

**SYNONYM:** Aluminum trifluoride

## SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7784-18-1	100	2mg/m <sup>3</sup> (as Al) 2.5mg/m <sup>3</sup> (as F)	no data 2.5mg/m <sup>3</sup> (as F)

## SECTION 3 Hazards Identification

**EMERGENCY OVERVIEW:** Material hydrolyzes in contact with moisture releasing toxic and corrosive hydrofluoric acid. Causes delayed, deep, slow healing, painful burns. Poison by ingestion.

**PRIMARY ROUTES OF EXPOSURE:** Ingestion, inhalation, skin, eyes

**EYE CONTACT:** May cause serious eye damage. Effects may not immediately appear.

**SKIN CONTACT:** Prolonged contact with skin may cause delayed deep slow healing painful burns.

**INHALATION:** Dust or hydrofluoric acid fumes may cause severe irritation to the respiratory tract.

**INGESTION:** May cause salivation, nausea, vomiting, diarrhea, and painful abdominal burns.

**ACUTE HEALTH EFFECTS:** Fluoride poisoning may cause nausea, vomiting, diarrhea, weakness, coma, and respiratory paralysis. Hydrofluoric acid may cause eye and skin burns and pulmonary edema.

**CHRONIC HEALTH EFFECTS:** Prolonged exposure to soluble fluorine compounds can cause deterioration of bone and tooth structure, and kidney damage.

**NTP:** No

**IARC:** No

**OSHA:** No

## SECTION 4 First Aid Measures

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.

**SKIN EXPOSURE:** Wash the affected area with water. Remove contaminated clothes if necessary. Apply calcium gluconate jelly or water soluble calcium salts as antidote. Seek medical assistance.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.