

QS-PDS-1045 Revision: 02

Application Powerful flux in enamels, glasses and glazes, ingredient in brazing and welding fluxes, molten salt chemistry and metallurgy, and heat sink material.

Appearance White powder

Product Specifications**Guaranteed**

LiF, wt%	98.5 min
H ₂ O*	0.50 max
SO ₄ , wt%	0.18 max
Fe ₂ O ₃ , wt%	0.05 max
Alkalinity (as LiOH), wt%	0.5 max
Alkalinity (as Li ₂ CO ₃), wt%	0.8 max
Acidity (as HF), wt%	0.02 max

* Value (as weight percent loss) determined by drying at 110°C for 2 hours.

Other Data	Bulk density	Loose 0.3 g/cm ³ (19 lb/ft ³)
		Tap 0.7 g/cm ³ (38 lb/ft ³)

Physical Properties	Molecular weight	25.94
	Density @ 25°C	2.639 g/cm ³
	Melting Point	848°C
	Boiling Point	1681°C
	Specific heat @ 25°C	0.386 cal/g/°C
	Standard heat of formation	-146.3 kcal/mole
	Standard heat of fusion	6.470 kcal/mole
	Water solubility @ 25°C	0.133 wt %
	Volume increase on melting	29.4%

Toxicity/Safety Data Harmful if swallowed. Causes serious eye irritation. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Wash hands thoroughly after handling.

COMPLETE INFORMATION ON TOXICITY AND SAFETY IS CONTAINED IN THE SAFETY DATA SHEET (SDS) AVAILABLE FOR THIS PRODUCT.



LITHIUM FLUORIDE TECHNICAL GRADE

CAS No. 7789-24-4

Handling/Storage/Disposal Avoid contact with eyes, skin or clothing. Use with adequate ventilation. Wear safety glasses or goggles and rubber gloves. Wash thoroughly after handling. Keep away from strong acids. Keep container closed.

Dispose of waste according to local and Federal laws and regulations.

Shipping Containers 100 pounds (45.5 kg) of product in a 20 gallon (75.7 L) polyethylene-lined fiber drum.

Shipping Limitations Shipments of lithium fluoride are not classed as hazardous for transport. Shipments by post, parcel, air, water, rail or road are acceptable within each carrier's weight limits and packaging requirements.