NAVIN FLUORINE INTERNATIONAL LIMITED

web: http://www.nfil.in
mailto: bulkfluoride@nfil.in

Kalpataru Point, Kamani Marg,
Sion - East, Mumbai-400022. India.

Maflor® : Aluminium Fluoride

Formula - AlF_3
Mol. Wt - 86.93
U.N. Number - 2923
CAS No. - 7784-18-1

SYNONYM | Aluminium Trifluoride

PRODUCT SPECIFICATION	Guaranteed	Typical
Purity as AlF_3	90 % min	91.04 %
Total Fluorine as F	60 % min	61.77 %
Silica as SiO_2	0.20 % max	0.058 %
Iron as Fe_2O_3	0.20 % max	0.035 %
Sulphite as SO_3	0.50 % max	0.12 %
Phosphorous as P_2O_5	0.02 % max	0.0080 %
Alumina as Al_2O_3	By Difference	8.079 %
Loss on Ignition at 550 ^oC	1.00 % max	0.48 % max
Bulk Density	1.30 g/cc min	1.63 g/cc
Angle of Repose		35^o
Flowability		45 Seconds
Retained on 100 BSS Tyler Mesh		1.04 %
Retained on 200 BSS Tyler Mesh		51.80 %
Retained on 325 BSS Tyler Mesh		21.90 %
Passing through 325 BSS Tyler Mesh		25.26 %

PHYSICAL DATA

Physical Appearance		White Free Flowing Granule / Powder			
Odour	Odourless	pH	Neutral		
Melting Point	1040 ^0C	Boiling Point	1537 ^0C	Sp. Gravity	3
Vapour Pressure	1238 mm Hg	Solubility	0.5 g / l water at 25 ^oC		

HAZARD DATA Pl. Refer MSDS for details

Hazard class	8`	Flammability	Non Flammable
Flash point	N.A.	Extinguishers	Carbon Dixoide, Foam, Dry Chemical
Auto Ignition	N.A.	Permissible exposure limit - OSHA : 2 mg (F) / m^3 Threshold Limit Value - ACGIH : 2.5 mg (Al) / m^3	

Label required	Danger! Do not take Internally. Wash thoroughly after handling. avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Acute / Severe Eye Irritant.

NFPA RATING	Health	Flammability	Reactivity	Other
	N.A.	N.A.	N.A.	N.A.

HANDLING / STORAGE	Store in a cool, dry place. Store in a tightly closed container. Do not store in metals or glass containers.

PACKAGING : 25 Kg / 50 Kg net in Polyethylene Lined HDPE bags or 1 MT net in HDPE Bulk-a-Bags or 15 Kg net in Paper Bags. | Group - II

APPLICATIONS

As a flux in electrolytic reduction of alumina to aluminium **by Primary Aluminium Smelters.**

As a flux in By **Ceramic Glazes and Enamels.**

In manufacture of **Aluminium Silicates**.

Also used as a **Catalyst**.