



Maflorin® : Ammonium Bifluoride		Formula - NH ₄ .HF	
		Mol. Wt - 57.04	
		U.N. Number- 1727	
		CAS No. - 1341-49-7	
SYNONYM	Ammonium Hydrogen Fluoride		
PRODUCT SPECIFICATION			
Physical appearance	White, Free Flowing Flakes		
Purity (NH ₄ F.HF)	98.50% min		
Iron Oxide	0.10% max		
PHYSICAL DATA			
Physical Appearance	White, Free Flowing Flakes		
Odour	Odourless	pH	3.5 (5% Solution)
Melting Point	124.6 °C	Boiling Point	240 °C
Vapour Pressure	N.A.	Sp. Gravity	1.51
		Solubility	41.5 gm / 100 gm water at 25 °C
HAZARD DATA	Pl. Refer MSDS for details		
Hazard class	8	Flammability	Non Flammable
Flash point	N.A.	Extinguishers	Foam, Carbon dioxide, Dry chemicals
Auto Ignition	N.A.	Permissible exposure limit - OSHA : 2.5 mg (F) / m ³ (TWA) Threshold Limit Value - ACGIH : 2.5 mg (F) / m ³ (TWA)	
Label required	Danger! May be fatal if swallowed or inhaled. Causes burns to Skin, Eyes and Respiratory tract. Irritation and Burns effect may be delayed. Harmful if absorbed through skin.		
NFPA RATING	Health 3 (High)	Flammability 0 (Insignificant)	Reactivity - 0 (Insignificant)
			Other - 0 (Insignificant)
HANDLING / STORAGE	Keep in a tightly closed container. Store in a cool, dry, ventilated area. Protect against damage. Separate from acids and alkalis. Do not store in metal containers. Containers of this material may be hazardous when empty. Avoid physical contact, inhalation.		
PACKAGING : 35 kg net in Polyethylene Lined HDPE / PP bags		Group - II	
APPLICATIONS			
In Sugar Industry to curb inversion of sucrose and for descaling of evaporators and other equipment.			
In Metal Surface Treatment being good solvent for oxides and silicates.			
In Electroplating as an essential component of baths especially for anodizing Aluminium and its alloys.			
In Oil and Natural Gas well stimulation by softening silicate rocks and clogging.			
In Wood Preservation as a fungicide and in Breweries to control undesirable fermentation.			
In Glass Industry for frosting, polishing and etching.			
For Boiler, Evaporator and Pipe cleaning to dissolve siliceous scales.			
In Textile / Laundry industry to decolorise Iron Stains without tendering the fabrics.			
In Nuclear Chemistry and Reactor to separate uranium from iron, vanadium, etc. and in preparing UF ₆ .			
In Renovation of Buildings / Monuments to remove dirt & oxide adhering to surface, in Preparation of Pure Carbon to remove silica from coal, as a component of tin / lead strippers .			