



<b>BORON TRIFLUORIDE</b>				<b>F</b> <b>I</b> <b>: B - F</b> <b>I</b> <b>F</b>		Formula	BF <sub>3</sub>	
<b>Synonym</b>		Trifluoroboron				Mol. Wt	67.82	
						U.N.No.	1008	
						CAS NO.	7637-07-2	
PRODUCT SPECIFICATIONS			PHYSICAL PROPERTIES					
BF3 (By wt %)	99.5%	Min	Appearance		Gas, white clouds in presence of atmospheric moisture			
SiF4	0.015%	Max						
SO2 + SO3, expressed as S	0.0015%	Max	B.P.	-100.3 °C	Density @ 20°C Of vapor	2.79 kg/m <sup>3</sup>		
Inert compounds	0.4%	Max	M.P.	-127 °C	Vap.pr .	Gas at room temp		
			Solubility in water		77% by wt. Hydrolyzes			
HAZARD DATA				NFPA Ratings	Health	Flammable	Reactivity	Other
Pl.refer MSDS for details					4	0	1	0
Hazard Class	6.1		Flammability	Non Flammable gas				
Flash Point	N.A.		TLV	1 ppm =	LC 50	lhl-rat		
				3mg/m3		1180 mg/m3/4hr		
Auto Ignition	N.A.		Label required	Toxic, Corrosive. A void inhalation, skin contact. Keep away from food				
Extinguishers	Use fog type of Water spray to scurb the fumes							
HANDLING / STORAGE	Store BF3 gas cylinders under shed away from Sun/heat in a ventilated place. Use appropriate pressure regulator to decant the gas from the cylinder . Do not fill any other gas in cylinder . Follow Gas cylinder rules 1981 and the instruction of Chief Controller of Explosives in India while handling the gas							
PACKAGING	Group	III	Normal	Seamless cylinders filled with 25kg gas				
			Bulk	Tube trailer				
APPLICATION	PHARMA INTERMEDIATE FOR CEPHALOSPHORN, AGROCHEMICALS - CATALYST FOR CYPERMETHRIN Catalyst for Polymerization, Alkylolation, Isomerization, Esterification, Acylation, Sulfonation, Lube oil manufacturing							