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PRODUCT SPECIFICATION	
Title: Title: 3-HYDROXY BENZOTRIFLUORIDE (C ₇ H ₅ F ₃ O)	Document No. : NFIL/QC /SPEC/FP/026/00 Effective Date : 05/11/2008

Material Code : SPE005104

Major Packing : UN-Certified /MS-HDPE drum 200 / 250Kg

Storage Specifications : Stored in dry condition at room temperature in well closed container.



Molecular Formula : C₇H₅F₃O

Molecular Weight : 162.11

Synonyms : m-Hydroxybenzotrifluoride;m-Trifluoromethylphenol;
alpha,alpha,alpha-Trifluoro-m-cresol

Sr. No.	TEST	SPECIFICATION
Product Specification:		
1	Appearance / Description	Clear, pale yellow liquid
2	Moisture (By KF)	00.50% Max.
3	Purity (By GC)	99.00% Min.
4	Total Impurities	01.00% Max.

- Customer should discuss with business unit at speciality@nfil.in for the other requirements than specified.
- Analytical Method No. **NFIL/QC/WI/FP/026.**

1. CHEMICAL IDENTITY

Chemical Name	Alpha, Alpha, Alpha – Trifluoro-M.cresol
Synonym	m-Hydroxybenzotrifluoride, m-Trifluoromethylphenol
Formula	C ₇ H ₅ F ₃ O

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients name & CAS no	Alpha, Alpha, Alpha – Trifluoro-M.cresol	C.A.S. No 98-17-9, EC No 202-645-5
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3. PHYSICAL / CHEMICAL DATA

Boiling Point	178-179 °C	Vapour Pressure at 20 °C	Not available
Melting Point	0 °C	Solubility in water	Insoluble
Vapour Density (Air = 1)	NA	Appearance	yellow
Specific Gravity (Water=1)	1.3330	Odour	Not available
pH (1% Soln.)	Not available	Other	----
Physical state	Clear Liquid		

4. FIRE / EXPLOSION HAZARD DATA

Flammability	LEL%	Not available	Flash Point : 73 °C
Auto Ignition Temp. Not available	UEL%	Not available	
TDG Flammability	Not available		
Explosion Sensitivity to Impact	Not available		
Explosion Sensitivity to static electricity	Not available		
Hazardous Combustion Product	Emits toxic & irritating gases under fire conditions.		
Hazardous Polymerization	Will not occur.		
Combustible liquid	Yes	Oxidizer	No
Flammable material	No	Organic Peroxide	No
Pyrophoric material	No	Corrosive	No
Explosive material	No	Other	


5. STABILITY & REACTIVITY DATA

Chemical stability	Stable under normal temperature & pressures.
Incompatibility	With other Materials Oxidizing agents, acid chlorides, acid anhydrides.
Conditions to avoid	React with organic compounds.
Hazardous reaction/decomposition products	On decomposition it produces carbon monoxide, irritating toxic fumes and gases, carbon dioxide, hydrogen fluoride gas.

6. HEALTH HAZARD DATA

Effects of exposure/ Symptoms	Skin, Eyes, Inhalation ,Ingestion
	<p>Skin: Can cause severe irritation.</p> <p>Eyes: Can cause severe irritation.</p> <p>Inhalation: Irritating to the respiratory tract.</p> <p>Ingestion: harmful if swallowed. May cause corrosive burns to the throat and stomach. May cause rash, burns, nausea, diarrhea, stomach, pain, bloody vomit, blood in the urine, shortness of breath, low blood pressure, irregular heartbeat, tingling, sensation, twitching, visual disturbance .</p>

7. TOXICOLOGICAL INFORMATION			
	LD 50 / LC50	NA	
	Permissible Exposure Limit-OSHA(PEL)	NA	
	NFPA hazard signal	NA	
8. ECOLOGICAL INFORMATION			
	Not available.		
9. PREVENTIVE MEASURES/EXPOSURE CONTROL/PERSONAL PROTECTION			
	Engineering Controls	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.	
	Personal Protective Equipments	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves	
10. HANDLING & STORAGE			
	Normal Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.	
	Storage Recommendation	Store in a cool, dry place. Keep container closed when not in use.	
11. EMERGENCY / FIRST AID MEASURE			
	Fire	Fire extinguishing medium	Use agent most appropriate to extinguish fire.
	Exposure/first aid measures	Inhalation	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
		Skin / Eyes	Eye: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention Skin: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention
		Ingestion	Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
	Special procedure	Use NIOSH approved self contained positive pressure breathing apparatus with full face piece and protective clothing	
12. ACCIDENTAL RELEASE MEASURES			
	General Information	Use proper personal protective equipment as indicated in section 9	
	Spills / Release	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the protective equipment section.	

13. DISPOSAL CONSIDERAIONS:	
	Dispose of in a manner consistent with federal, state, and local regulations.
14. TRANSPORT INFORMATION	
Shipping Name	Toxic Liquid, Corrosive, Organic, N.O.S.
Hazard Class	6.1
Hazard Class label	
UN Number	UN2927
Packing Group	II
Shipping Name	Toxic Liquid, Corrosive, Organic, N.O.S.
15. REGULATORY INFORMATION	
	<p>European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: XI Risk Phrases: R 36/37/38 Irritating to eyes, respiratory system and skin. Safety Phrases: S 24/25 Avoid contact with skin and eyes.</p>
16. NAME OF FIRM - NAVIN FLUORINE INTERNATIONAL LIMITED	
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