

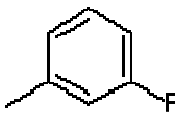
NAVIN FLUORINE INTERNATIONAL LTD		web: <a href="http://www.nfil.in">http://www.nfil.in</a> mailto: <a href="mailto:speciality@nfil.in">speciality@nfil.in</a>
		2nd Floor, Suntek Centre, 37/40, Subhash Road, Vile Parle (East), Mumbai-400057. India.

PRODUCT SPECIFICATION	
Title: META FLUORO TOLUENE (C <sub>7</sub> H <sub>7</sub> F)	Document No. : NFIL/QC /SPEC/FP/003/00 Effective Date : 05/11/2008

Material Code : SPE005208

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

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

Structural Formula : 

Molecular Formula : C<sub>6</sub>H<sub>5</sub>F

Molecular Weight : 96.10

Synonyms : Monofluorobenzene, Phenyl Fluoride

Sr. No.	TEST	SPECIFICATION
<b>Product Specification:</b>		
1	Appearance / Description	Clear, colourless liquid
2	Moisture (By KF)	00.20% Max.
3	Purity ( By GC)	99.00% Min.
4	Isomer impurities	00.50% Max.
5	Total Impurities	01.00% Max.

- Customer should discuss with business unit at [speciality@nfil.in](mailto:speciality@nfil.in) for the other requirements than specified.
- Analytical Method No. **NFIL/QC/WI/FP/003**

***3-Fluorotoluene***

**1. CHEMICAL IDENTITY**

Chemical name 3-Fluorotoluene

Synonym

Chemical Formula C<sub>7</sub>H<sub>7</sub>F

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients Name	3-Fluorotoluene	CAS No.: 352-70-5
		ECNo: 206-524-8

**3. PHYSICAL / CHEMICAL DATA**

Boiling Point	115°C@760 mm hg	Vapour Pressure	Not available
Melting Point	-87°C	Solubility in water	Insoluble
Vapour Density	3.8	Appearance	Light yellow-colorless
Specific Gravity	0.991	Odour	Not available
pH	Not available	Other	
Physical State	Clear liquid		

**4. FIRE / EXPLOSION HAZARD DATA**

Flammability	Flammable	Flash Point	12°C (53.60 ° F)
Auto ignition temperature	Not available	LEL	Not available
Explosion sensitivity to impact	Not available	UEL	Not available
Explosion sensitivity to static electricity	Not available		
Hazardous Combustion products			
Hazardous Polymerization	Not available		
Pyrophoric material	No	Corrosive	
Organic Peroxide	No	Oxidizer	No
Explosive material		Other	--

**5. STABILITY & REACTIVITY DATA**

Chemical Stability	Stable under normal temperatures and pressures
Incompatibility	Strong oxidizing agents
Conditions to avoid	Incompatible materials, ignition sources, excess heat.
Hazardous reaction / decomposition products.	Carbon monoxide, carbon dioxide, hydrogen fluoride gas.

**6. HEALTH HAZARD DATA**


Effects of exposure / symptoms	<p><b>Eye:</b> May cause eye irritation.</p> <p><b>Skin:</b> May cause skin irritation. May be harmful if absorbed through the skin.</p> <p><b>Ingestion:</b> May cause irritation of the digestive tract. May be harmful if swallowed.</p> <p><b>Inhalation:</b> May cause respiratory tract irritation. May be harmful if inhaled.</p>
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**7. TOXICOLOGICAL INFORMATION**

LD 50 / LC50	Not available
Exposure Limit	

**8. ECOLOGICAL INFORMATION**

Do not empty into drains		
<b>9. PREVENTIVE MEASURES / EXPOSURE CONTROL / PERSONAL PROTECTION</b>		
Engineering Control	Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low	
Personal Protective Equipment	<p><b>Eyes:</b> Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.</p> <p><b>Skin:</b> Wear appropriate protective gloves to prevent skin exposure.</p> <p><b>Clothing:</b> Wear appropriate protective clothing to prevent skin exposure.</p> <p><b>Respirators:</b> Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.</p>	
<b>10. HANDLING &amp; STORAGE</b>		
Normal handling	Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale	
Storage Recommendation	Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area	
<b>11. EMERGENCY / FIRST AID MEASURES</b>		
Fire	Fire Extinguishing Medium	Use water spray, dry chemical, carbon dioxide, or chemical foam.
Exposure / First Aid Measure	Inhalation	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid
	Skin	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists
	Eyes	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid
	Ingestion	Do not induce vomiting. Get medical aid if irritation or symptoms occur
Special Procedure		
<b>12. ACCIDENTAL RELEASE MEASURE</b>		
Spills/Leaks	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Do	

	not let this chemical enter the environment
<b>13. DISPOSAL CONSIDERATIONS</b>	
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.	
<b>14. TRASPOT INFORMATION</b>	
Proper shipping Name	FLUOROTOLUENES
Hazard Class	3
UN Number	UN2388
Packing Group	II
Hazard Label	
<b>15. REGULATORY INFORMATION</b>	
<b>European/International Regulations</b> <b>European Labeling in Accordance with EC Directives</b> <b>Hazard Symbols:</b> XI F <b>Risk Phrases:</b> R 11 Highly flammable. R 37 Irritating to respiratory system. <b>Safety Phrases:</b> S 16 Keep away from sources of ignition - No smoking. S 23 Do not inhale gas/fumes/vapour/spray. S 24/25 Avoid contact with skin and eyes	
<b>16. NAME OF FIRM - NAVIN FLUORINE INTERNATIONAL LIMITED</b>	
Mailing address	Post Office - Bhestan, Surat, PIN 395 023, Gujarat, India
Telephone	+91-261-2890325 to 2890329
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