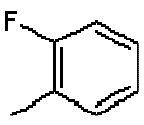


NAVIN FLUORINE INTERNATIONAL LTD		web: http://www.nfil.in mailto: speciality@nfil.in
		2nd Floor, Suntek Centre, 37/40, Subhash Road, Vile Parle (East), Mumbai-400057. India.

PRODUCT SPECIFICATION	
Title: ORTHO FLUORO TOLUENE (C ₇ H ₇ F)	Document No. : NFIL/QC /SPEC/FP/002/00 Effective Date : 05/11/2008

Material Code	: SPE005061
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 ₇ H ₇ F
Molecular Weight	: 110.13
Synonyms	: o-Fluoro Toluene, 1-Fluoro-2-Methyl Benzene

Sr. No.	TEST	SPECIFICATION
Product Specification:		
1	Appearance / Description	Clear, colourless liquid
2	Moisture (By KF)	00.20% Max.
3	Purity (By GC)	99.50% Min.
4	Total Impurities	00.50% Max.

- Customer should discuss with business unit at speciality@nfil.in for the other requirements than specified.
- Analytical Method No. **NFIL/QC/WI/FP/002**



NAVIN FLUORINE
INTERNATIONAL LIMITED

MATERIAL SAFETY DATA SHEET (MSDS)

2-Fluorotoluene

1. CHEMICAL IDENTITY

Chemical name	2-Fluorotoluene
Synonym	o-Fluorotoluene
Chemical Formula	C ₇ H ₇ F

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients Name		CAS No.: 95-52-3
		EC No.: 202-428-5

3. PHYSICAL / CHEMICAL DATA

Boiling Point	113 - 114 deg C @ 760 mmHg	Vapour Pressure	Not available.
Melting Point	-62 deg C	Solubility in water	Insoluble.
Vapour Density		Appearance	light yellow
Specific Gravity	1.000	Odour	Not available.
pH	Not available.	Other	
Physical State	Clear liquid		

4. FIRE / EXPLOSION HAZARD DATA

Flammability	YES	Flash Point	8°C (46.40° F)
Auto ignition temperature	Not available.	LEL	Not available.
Explosion sensitivity to impact		UEL	Not available.
Explosion sensitivity to static electricity			
Hazardous Combustion products			
Hazardous Polymerization	Has not been reported.		
Pyrophoric material		Corrosive	
Organic Peroxide		Oxidizer	
Explosive material		Other	
NFPA Rating (estimated)	Health: 2; Flammability: 3; Instability: 0		


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	Eye: May cause eye irritation. Skin: May cause skin irritation. May be harmful if absorbed through the skin. Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May be harmful if inhaled. Chronic: No information found.
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7. TOXICOLOGICAL INFORMATION		
LD 50 / LC 50	Not available.	
Exposure Limit		
8. ECOLOGICAL INFORMATION		
Ecotoxicity: No data available. No information available.		
Environmental: No information available.		
Physical: No information available.		
Other: Do not empty into drains.		
9. PREVENTIVE MEASURES / EXPOSURE CONTROL / PERSONAL PROTECTION		
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>Eyes: 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>Skin: Wear appropriate protective gloves to prevent skin exposure.</p> <p>Clothing: Wear appropriate protective clothing to prevent skin exposure.</p> <p>Respirators: 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>	
10. HANDLING & STORAGE		
Normal handling	Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and 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.	
11. EMERGENCY / FIRST AID MEASURES		
Fire	Fire Extinguishing Medium	Use water spray, dry chemical, carbon dioxide, or chemical foam.
Exposure / First Aid Measure	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.
	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.
Special Procedure	Treat symptomatically and supportively.	

12. ACCIDENTAL RELEASE MEASURE	
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.
13. DISPOSAL CONSIDERATIONS	
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.	
14. TRANSPORT INFORMATION	
Proper shipping Name	FLUOROTOLUENES
Hazard Class	3
UN Number	UN2388
Packing Group	II
Hazard Label	
15. REGULATORY INFORMATION	
European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: XN F Risk Phrases: R 11 Highly flammable. R 37 Irritating to respiratory system. Safety Phrases: 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.	
16. NAME OF FIRM - NAVIN FLUORINE INTERNATIONAL LIMITED	
Mailing address	Post Office - Bhestan, Surat, PIN 395 023, Gujarat, India
Telephone	+91-261-2890325 to 2890329
Fax	+91-261-2890288
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