

## 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name:	YF4040001
Catalog Number:	YF4040001
Chemical Name:	Trifluoromethyl benzenesulfonate
Product Type:	Laboratory chemicals
Recommended Use:	May be used to produce molded or extruded articles or as a component of other industrial products.
Company:	Nanjing Bestfluorodrug Pharmaceutical Technology CO.,LTD 9 Weidi Rd., Qixia District, Nanjing Tel: +86 25 86755008 Fax: +86 25 86755228 Website: www.bestfluorodrug.com

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Trifluoromethyl benzenesulfonate
CAS Number:	1197209-25-8
Chemical Formula:	C <sub>7</sub> H <sub>5</sub> F <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	226.17
Appearance:	Yellow liquid

## 3 HAZARDS IDENTIFICATION

Harmful if swallowed, inhaled or absorbed through skin. Material may be irritating to tissue of the mucous membranes and upper respiratory tract, eyes and skin.

## 4 FIRST AID MEASURES

### 4.1 General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### 4.2 Skin Contact

Wash off immediately with soap and plenty of water. Consult a physician if necessary.

### 4.3 Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.

### 4.4 Inhaled

Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.

## 5 FIRE-FIGHTING MEASURES

### 5.1 Suitable Extinguishing Media:

Water spray mist or foam.

### 5.2 Special Protective Equipment for Firefighters

In the event of fire, wear self-contained breathing apparatus.

### 5.3 Specific Hazards

Take precautionary measures against static discharges. Burning releases carbon monoxide, carbon dioxide and oxides of nitrogen. In the event of fire and/or explosion do not breathe fumes.

## 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Methods and Materials for Containment and Cleaning Up

Evacuate persons not wearing protective equipment from area of spill or leak until cleanup is complete. Remove all ignition sources. Dampen spilled material with alcohol to avoid dust, then transfer material to a suitable container. Use HEPA vacuum or wet method to reduce dust during clean-up. Do not dry sweep. Collect powdered material in the most convenient and safe manner and deposit in sealed containers. Ventilate area after clean-up is complete. It may be necessary to contain and dispose of this chemical as a hazardous waste. If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated waters. Contact your Department of Environmental Protection or your regional office of the federal EPA for specific recommendations. If employees are required to clean-up spills, they must be properly trained and equipped.

### 6.2 Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.3 Environmental Precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

## 7 HANDLING AND STORAGE

### 7.1 Handling

Under recommended processing conditions small amounts of residues of monomers and residual solvent may be emitted. Dust must be removed by effective exhaust ventilation.

### 7.2 Storage

No special storage conditions required.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Engineering Controls

A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection. Local ventilation requirements must be determined to limit exposure to processing fumes in the workplace.

### 8.2 Engineering Measures to Reduce Exposure

In case of hazardous fumes, wear self contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery.

### 8.3 Personal Protective Equipment

Hand Protection	Protective gloves
Eye Protection	Safety glasses with side-shields
Respiratory Protection	In the case of hazardous fumes, wear self contained breathing apparatus. In case of insufficient ventilation wear suitable respiratory equipment.

Skin and Body Protection

Long sleeved clothing

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Colour	Yellow
Physical State	Liquid
Odor	Microscale
BP/BP range	No data available
MP/MP range	No data available
Vapor Pressure	No data available
Water Solubility	No data available
Evaporation Rate	No data available
Explosive Limits	
Upper	No data available
Ower	No data available

## 10 STABILITY AND REACTIVITY

### 10.1 Hazardous Reactions

No hazardous reactions observed.

### 10.2 Hazardous Decomposition Products

Caused by smouldering and incomplete combustion. Toxic fumes mainly consisting of CO and CO<sub>2</sub> may be developed hazardous gases.

### 10.3 Thermal Decomposition

Fumes evolved by overheating during improperly processing or by burning may be injurious to health.

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	Irritant for skin and mucous membranes
Serious eye damage/irritation	May cause Severe eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity(single exposure)	No data available
Specific target organ toxicity(repeated exposure)	No data available
Aspiration hazard	No data available

### 11.2 Additional information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity	No data available
Persistence and degradability	No data available

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Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

## **13 DISPOSAL CONSIDERATIONS**

### **13.1 Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

### **13.2 Contaminated packaging**

Dispose of as unused product.

## **14 TRANSPORT INFORMATION**

No known hazard for air and ground transportation.

## **15 REGULATORY INFORMATION**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available

## **16 OTHER INFORMATION**

### **16.1 Disclaimer**

For R&D use only. Not for drug, household or other uses.

### **16.2 Warranty**

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