

## 2-FLUORO-6-(TRIFLUOROMETHYL)BENZONITRILE 133116-83-3 MSDS

### Section 1. IDENTIFICATION

**Product name:** 2-Fluoro-6-(trifluoromethyl)benzonitrile

**Revision number:** 5

### Section 2. HAZARDS IDENTIFICATION

#### GHS classification

**PHYSICAL HAZARDS** Not classified

#### HEALTH HAZARDS

**Acute toxicity (Oral)** Category 3

Category 3

**Acute toxicity (Dermal)**

**Acute toxicity (Inhalation)** Category 3

Category 2

#### Skin corrosion/irritation

**Serious eye damage/eye irritation** Category 2A

Not classified

#### ENVIRONMENTAL HAZARDS

#### GHS label elements, including precautionary statements

#### Pictograms or hazard symbols

**Signal word** Danger

Toxic if swallowed, in contact with skin or if inhaled

#### Hazard statements

Causes skin irritation

Causes serious eye irritation

#### Precautionary statements:

Avoid breathing dust/fume/gas/mist/vapours/spray.

#### [Prevention]

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

**[Response]** IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for

breathing. Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Remove/Take off immediately all contaminated clothing.  
Wash contaminated clothing before reuse.  
Call a POISON CENTER or doctor/physician if you feel unwell.

## **2-Fluoro-6-(trifluoromethyl)benzotrile**

### **Section 2. HAZARDS IDENTIFICATION**

**[Storage]** Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

**[Disposal]** Dispose of contents/container through a waste management company authorized by the local government.

### **Section 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/mixture:** Substance

**Components:** 2-Fluoro-6-(trifluoromethyl)benzotrile  
>98.0%(GC)

**Percent:**

**CAS Number:** 133116-83-3  
2-Cyano-1-fluoro-3-(trifluoromethyl)benzene

**Synonyms:**

**Chemical Formula:** C<sub>8</sub>H<sub>3</sub>F<sub>4</sub>N

### **Section 4. FIRST AID MEASURES**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician.

**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

**Ingestion:**

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### **Section 5. FIRE-FIGHTING MEASURES**

Dry chemical, foam, water spray, carbon dioxide.

**Suitable extinguishing**

**media:**

**Specific hazards arising** Take care as it may decompose upon combustion or in high

**temperatures to**

**from the chemical:** generate poisonous fume.

**Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing**

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

When extinguishing fire, be sure to wear personal protective equipment.

**Special protective equipment for firefighters:**

## **Section 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions,** Use extra personal protective equipment (P3 filter respirator for toxic particles). Keep

**protective equipment and people away from and upwind of spill/leak. Entry to non-involved personnel should**

**emergency procedures: be controlled around the leakage area by roping off, etc.**

**Environmental precautions: Prevent product from entering drains.**

**Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it.**

**containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with**

**up: appropriate laws and regulations.**

## **Section 7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

**Advice on safe handling: Avoid contact with skin, eyes and clothing.**

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in a cool, dark and well-ventilated place.

**Storage conditions:**

**2-Fluoro-6-(trifluoromethyl)benzonitrile**

## **Section 7. HANDLING AND STORAGE**

Store locked up.

Store away from incompatible materials such as oxidizing agents.

**Packaging material:** Comply with laws.

## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Install a closed system or local exhaust. Also install safety shower and eye bath.

### **Personal protective equipment**

**Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator,**

etc. Use respirators approved under appropriate government standards and follow local and national regulations.

**Hand protection:** Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

**Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.**

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state (20°C):** Solid

**Form:** Crystal- Lump

**Colour:** White - Very pale yellow

**Odour:** No data available

**pH: No data available**

**Melting point/freezing point:28°C**

**Boiling point/range:** No data available

**Flash point:** No data available

**Flammability or explosive**

**limits:**

No data available

**Lower:**

**Upper:** No data available

No data available

**Relative density:**

**Solubility(ies):**

**[Water]** No data available

**[Other solvents]** No data available

## Section 10. STABILITY AND REACTIVITY

Stable under proper conditions.

**Chemical stability:**

**Possibility of hazardous No special reactivity has been reported.**

**reactions:**

**Incompatible materials: Oxidizing agents**

**Hazardous decomposition Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx),**

**Hydrogen fluoride**

**products:**

## Section 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** No data available  
**Skin corrosion/irritation:** No data available  
**Serious eye damage/irritation:** No data available  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:**  
**IARC =** No data available  
**NTP =** No data available  
**Reproductive toxicity:** No data available

## Section 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**  
**Fish:** No data available  
No data available  
**Crustacea:**  
**Algae:** No data available  
**2-Fluoro-6-(trifluoromethyl)benzonitrile**

## Section 12. ECOLOGICAL INFORMATION

**Persistence / degradability:** No data available  
**Bioaccumulative potential(BCF):** No data available  
**Mobility in soil**  
**Log Pow:** No data available  
No data available  
**Soil adsorption (Koc):**  
**Henry's Law constant(PaM<sup>3</sup>/mol):** No data available

## Section 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material

with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system.

Observe all federal, state and local regulations when disposing of the substance.

## Section 14. TRANSPORT INFORMATION

**Hazards Class:** 6.1: Toxic substance.  
3439  
**UN-No:**  
**Proper shipping name:** Nitriles, solid, toxic, n.o.s.  
III  
**Packing group:**

## **Section 15. REGULATORY INFORMATION**

**Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002**

**and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport,**

loading and unloading were prescribed.

## **SECTION 16 - ADDITIONAL INFORMATION**

N/A