

Creation Date 28-Dec-2010

Revision Date 28-Dec-2010

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Description:** 4-Fluoro-2-(trifluoromethyl)benzyl bromide  
**Cat No.** 434220000; 434220010  
**Synonyms** 1-(Bromomethyl)-4-fluoro-2-(trifluoromethyl)benzene

### Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Laboratory chemicals  
**Uses advised against** No Information available

### Details of the supplier of the safety data sheet

#### Company

Acros Organics BVBA  
 Janssen Pharmaceuticaaan 3a  
 2440 Geel, Belgium

**E-mail address** begel.sdsdesk@thermofisher.com

#### Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01  
 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99  
 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300  
 CHEMTREC Phone Number, Europe: 001-703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

|                                   |              |
|-----------------------------------|--------------|
| Skin Corrosion / irritation       | Category 1 B |
| Serious Eye Damage/Eye Irritation | Category 1   |

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

**Symbol(s)** C - Corrosive  
**R -phrase(s)** R34 - Causes burns

### Label Elements

4-Fluoro-2-(trifluoromethyl)benzyl bromide

Revision Date 28-Dec-2010

## 2. HAZARDS IDENTIFICATION



**Signal Word**

**Danger**

### Hazard Statements

H314 - Causes severe skin burns and eye damage

### Precautionary Statements - EU (§28, 1272/2008)

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

### Other Hazards

Lachrymator (substance which increases the flow of tears).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component   | EC No. | Weight % | CAS-No      | Classification | GHSCAS                  | REACH Reg. No. |
|---|--------|----------|-------------|----------------|-------------------------|----------------|
| 4-Fluoro-2-(trifluoromethyl)benzyl bromide<br>206860-48-2 |        | >95      | 206860-48-2 | C; R34         | Skin Corr. 1B<br>(H314) | -              |

For the full text of the R phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### Description of first aid measures

#### General Advice

If symptoms persist, call a physician Show this safety data sheet to the doctor in attendance

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes  
Immediate medical attention is required

## 4-Fluoro-2-(trifluoromethyl)benzyl bromide

Revision Date 28-Dec-2010

|                                   |   |
|-----------------------------------|---|
| <b>Skin Contact</b>               | Wash off immediately with plenty of water for at least 15 minutes Immediate medical attention is required   |
| <b>Ingestion</b>                  | Do not induce vomiting Call a physician or Poison Control Center immediately  |
| <b>Inhalation</b>                 | Move to fresh air If breathing is difficult, give oxygen Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device Immediate medical attention is required |
| <b>Protection of First-aiders</b> | Use personal protective equipment   |
| <b>Notes to Physician</b>         | Treat symptomatically   |

**5. FIRE-FIGHTING MEASURES****Extinguishing media****Suitable Extinguishing Media**CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam**Extinguishing media which must not be used for safety reasons**

No information available.

**Special hazards arising from the substance or mixture**

Combustible material Containers may explode when heated Keep product and empty container away from heat and sources of ignition

**Advice for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Thermal decomposition can lead to release of irritating gases and vapors

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not get in eyes, on skin, or on clothing.

**Environmental precautions**

Should not be released into the environment.

**Methods and material for containment and cleaning up**

Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

**7. HANDLING AND STORAGE****Precautions for Safe Handling**

Use only under a chemical fume hood Wear personal protective equipment Keep away from open flames, hot surfaces and sources of ignition Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Do not ingest

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

Keep containers tightly closed in a dry, cool and well-ventilated place Keep away from heat and sources of ignition Protect from moisture Corrosives area

4-Fluoro-2-(trifluoromethyl)benzyl bromide

Revision Date 28-Dec-2010

## Specific End Uses

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL)

No information available.

#### Predicted No Effect Concentration (PNEC)

No information available.

### Exposure controls

#### Engineering Measures

Use only under a chemical fume hood Ensure that eyewash stations and safety showers are close to the workstation location

### Personal protective equipment

#### Eye Protection

Safety glasses with side-shields

#### Hand Protection

Protective gloves

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

#### Respiratory Protection

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

### Hygiene Measures

When using, do not eat, drink or smoke Provide regular cleaning of equipment, work area and clothing

### Environmental exposure controls

No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical State

Liquid

### Appearance

Clear, colorless to yellow

### odor

No information available

### pH

No information available.

### Boiling Point/Range

141°C / 285.8°F @ 760 mmHg

### Melting Point/Range

No information available.

### Flash Point

85°C / 185°F

### Autoignition Temperature

No information available.

### Molecular Formula

C8 H5 Br F4

### Molecular Weight

257.03

## 10. STABILITY AND REACTIVITY

### Reactivity

#### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

#### Hazardous Polymerization

Hazardous polymerization does not occur.

## 4-Fluoro-2-(trifluoromethyl)benzyl bromide

Revision Date 28-Dec-2010

**Hazardous Reactions .** None under normal processing..

### Conditions to Avoid

Incompatible products, Heat, flames and sparks, Exposure to moist air or water.

### Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen halides.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

**Product Information** No acute toxicity information is available for this product

#### **Component Information**

#### Chronic Toxicity

**Carcinogenicity** There are no known carcinogenic chemicals in this product

#### **Sensitization**

No information available.

#### **Mutagenic Effects**

No information available

#### **Reproductive Effects**

No information available.

#### **Developmental Effects**

No information available.

#### **Target Organs**

Skin Respiratory system Eyes Gastrointestinal tract (GI)

#### **Endocrine Disruptor Information**

None known

## 12. ECOLOGICAL INFORMATION

### Toxicity

#### **Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

### Persistence and degradability

No information available

### Bioaccumulative potential

No information available.

4-Fluoro-2-(trifluoromethyl)benzyl bromide

Revision Date 28-Dec-2010

**Mobility in soil**

No information available.

**Results of PBT and vPvB assessment**

**Other adverse effects**

No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal

## 14. TRANSPORT INFORMATION

**IMDG/IMO**

|                      |  |
|----------------------|--|
| UN-No                | UN3265                                   |
| Hazard Class         | 8  |
| Packing Group        | II                                       |
| Proper Shipping Name | Corrosive liquid, acidic, organic, n.o.s |

**ADR**

|                      |  |
|----------------------|--|
| UN-No                | UN3265                                   |
| Hazard Class         | 8  |
| Packing Group        | II                                       |
| Proper Shipping Name | Corrosive liquid, acidic, organic, n.o.s |

**IATA**

|                      |  |
|----------------------|--|
| UN-No                | UN3265                                   |
| Hazard Class         | 8  |
| Packing Group        | II                                       |
| Proper Shipping Name | Corrosive liquid, acidic, organic, n.o.s |

## 15. REGULATORY INFORMATION

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

**International Inventories**

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory Lists

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**4-Fluoro-2-(trifluoromethyl)benzyl bromide****Revision Date 28-Dec-2010****PICCS** - Philippines Inventory of Chemicals and Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**CHINA** - China Inventory of Existing Chemical Substances**AICS** - Inventory of Chemical Substances**KECL** - Existing and Evaluated Chemical Substances**Chemical Safety Assessment****16. OTHER INFORMATION****Text of R phrases mentioned in Section 2-3**

R34 - Causes burns

**Revision Date** 28-Dec-2010**Revision Summary** Not applicable**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

**End of Safety Data Sheet**