

## FC18-02

### Bis(2,2,2-Trifluoroethyl) Sulfite

Revised 15-August-2022

#### 1. PRODUCT AND COMPANY IDENTIFICATION

##### Product Identifier

Product name	Bis(2,2,2-trifluoroethyl) sulfite
Catalog number	FC18-02
Brand	Fluoryx Labs
CAS number	53749-89-6

##### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified uses	Laboratory chemicals. Solvent.
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##### Details of the Supplier of the Safety Data Sheet

Company	Fluoryx Labs 3650 Research Way, #22 Carson City, NV 89706 USA +1 (510) 329-9149 www.fluoryx.com
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##### Emergency Call (VelocityEHS)

+01-813-248-0585 (International)
+1-800-255-3924 (USA)

#### 2. HAZARDS IDENTIFICATION

##### Classification of the Substance or Mixture

###### GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Toxicity, oral (Category 4), H302  
 Skin corrosion/irritation (Category 2), H315  
 Serious eye damage/eye irritation (Category 2A), H319  
 Respiratory tract irritation (Category 3), H335

##### GHS Label Elements, Including Precautionary Statements

Pictogram	GHS07: Exclamation mark
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Signal Word	Warning
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##### Hazard statements

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary phrases

P261

P302 + P352

P304 + P340

P305 + P351 + P338

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

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

IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes.

**3. COMPOSITION AND INFORMATION ON COMPONENTS**

**Synonyms** Ethanol ,2,2,2-trifluoro-, sulfite; 9CI

**Formula** C<sub>4</sub>H<sub>4</sub>F<sub>6</sub>O<sub>3</sub>S  
CF<sub>3</sub>CH<sub>2</sub>OS(O)OCH<sub>2</sub>CF<sub>3</sub>

**Molecular Weight** 246.13 g/mol

**CAS Number** 53749-89-6

**EC Number** None

**Hazardous Components**

Component	Classification	Concentration
Bis(2,2,2-trifluoroethyl) sulfite	Acute oral tox. 4, H302 Skin corr./irr. 2, H315 Serious eye dam./eye irr. 2A, H319 Resp. irr. 3, H335	≤100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES**

**Description of First Aid Measures**

**General advice** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled** Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

**In case of skin contact** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact** Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

**If swallowed** Never give anything by mouth to an unconscious person. Give water to victim to drink. Consult a physician.

**Most Important Symptoms and Effects, Both Acute and Delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**Indications of Any Immediate Medical Attention**

No data available.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

**Special Hazards Arising from the Substance** Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride, sulfur oxides

**Special Protective Equipment for Firefighters**      Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions**      Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental Precautions**      Do not let product enter drains and prevent further leakage if safe to do so.

**Methods for Cleaning Up**      Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE**

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**Precautions for Safe Handling**      Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection. For precautions see section 2.2.

**Conditions for Safe Storage, Including any Incompatibilities**      Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas. Air sensitive.

**Specific end use(s)**      Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Components with Workplace Control Parameters**      Contains no substances with occupational exposure limit values.

**Appropriate Engineering Controls**      Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal Protective Equipment**

**Eye/face protection**      Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**      Handle with chemical resistant gloves. Wash and dry hands.

**Body protection**      Impervious clothing and boots. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**      Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government

standards such as NIOSH (US) or CEN (EU). Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

**Control of environmental exposure**

Do not let product enter drains.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form Clear liquid  
 Color Colorless

**Safety Data**

pH No data available  
 Melting point/freezing point No data available  
 Boiling point 130 °C @ 760 mm Hg  
 Flash point No data available  
 Ignition temperature No data available  
 Auto-ignition temperature No data available  
 Lower explosion limit No data available  
 Upper explosion limit No data available  
 Thermal decomposition temperature No data available  
 Vapor pressure No data available  
 Density 1.545 g/mL  
 Water solubility Insoluble  
 Refractive index 1.37  
 Relative vapor density (air = 1) > 1  
 Odor Weak rotten egg odor  
 Odor threshold No data available  
 Evaporation rate No data available  
 Oxidizing properties No data available

**10. STABILITY AND REACTIVITY**

**Reactivity** No data available  
**Chemical Stability** Stable in sealed containers under dry, inert atmosphere.  
**Possibility of Hazardous Reactions:** No data available. Store under inert (dry) atmosphere.  
**Conditions to Avoid** No data available.  
**Incompatible Materials** Avoid strong oxidizing agents, strong acids.  
**Hazardous Decomposition Products** In combustion, emits toxic fumes including carbon oxides, sulfur oxides, and hydrogen fluoride.

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

Oral LD50 No data available  
 Inhalation LC50 No data available  
 Dermal LD50 No data available  
 Other information on acute toxicity No data available

<b>Skin Corrosion/Irritation</b>	Causes skin irritation.
<b>Serious Eye Damage/Eye Irritation</b>	Causes serious eye irritation.
<b>Respiratory or Skin Sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity</b>	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
<b>Reproductive Toxicity</b>	No data available
<b>Teratogenicity</b>	No data available
<b>Specific Target Organ Toxicity (Globally Harmonized System)</b>	
<b>Single exposure</b>	May cause respiratory irritation
<b>Repeated exposure</b>	No data available
<b>Aspiration Hazard</b>	No data available
<b>Synergistic Effects</b>	No data available
<b>Additional Information</b>	RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

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**12. ECOLOGICAL INFORMATION**

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<b>Toxicity</b>	No data available
<b>Persistence and Degradability</b>	Assumed to not readily degrade
<b>Bioaccumulative Potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>PBT and vPvB Assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
<b>Other Adverse Effects</b>	No data available

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**13. DISPOSAL CONSIDERATIONS**

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<b>Product</b>	Offer non-recyclable solutions to a licensed disposal company. Contact Fluoryx to return unused product.
<b>Contaminated Packaging</b>	Dispose of as unused product.

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**14. TRANSPORT INFORMATION**

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<b>DOT (US)</b>	Not dangerous goods
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**IMDG** Not dangerous goods  
**IATA** Not dangerous goods

**15. REGULATORY INFORMATION**

**TSCA Inventory** Not listed.  
**DSL Status** Not on the Canadian DSL list.  
**SARA 302 Components** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
**SARA 313 Components** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  
**SARA 311/312 Hazards** Acute health hazard  
**Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act.  
**Pennsylvania Right To Know Components** No components are subject to the Pennsylvania Right to Know Act.  
**New Jersey Right To Know Components** Bis(2,2,2trifluoroethyl) sulfite  
 CAS-No. 53749-89-6  
**California Prop. 65 Components** This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. OTHER INFORMATION**

**Full text of H-Statements Referred to Under Sections 2 and 3.**

Acute oral tox. 4,	Acute oral toxicity, Category 4
Skin corr./irr. 2	Skin corrosion/irritation, Category 2
Serious eye dam./eye irr. 2A	Serious eye damage/eye irritation, Category 2A
Resp. irr. 3	Respiratory irritation, Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

**HMIS Rating**

Health hazard	2
Flammability	0
Physical hazard	0

**NFPA Rating**

Health hazard	2
Fire hazard	0
Reactivity hazard	0

**Further Information**

For industrial use only. Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the

product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

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End of SDS