

**4-Ethoxy-3-(5-methyl-4-oxo-7-propyl-3,4-dihydro-imidazo[5,1-f][1,2,4]-triazin-2-yl)benzene-sulfonyl Chloride: sc-210038**



*The Power to Question*

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 4-Ethoxy-3-(5-methyl-4-oxo-7-propyl-3,4-dihydro-imidazo[5,1-f][1,2,4]-triazin-2-yl)benzene-sulfonyl Chloride  
**Product Number:** sc-210038  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

### 2. HAZARDS IDENTIFICATION

#### WHMIS Classification (Canada)

D2B Toxic Material Causing Other Toxic Effects  
Moderate Skin/Eye/Respiratory Tract Irritant

#### WHMIS Symbols



#### Classification of the Substance or Mixture and Label Elements

##### GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Skin Irritation (Category 2)

Serious Eye Irritation (Category 2)

Specific Target Organ Toxicity, Single Exposure; Respiratory Tract Irritation (Category 3)

##### EU Classification (According to EU Regulation 67/548/EEC)

Irritating to eyes, respiratory system and skin.

##### EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements

Irritation

Hazard Codes

Xi



#### Risk Codes and Phrases

R36/37/38

Irritating to eyes, respiratory system and skin.

#### Safety Precaution Codes and Phrases

S22

Do not breathe dust.

S37/39

Wear suitable gloves and eye/face protection.

##### GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word

Warning

#### GHS Hazard Statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

#### **GHS Precautionary Statements**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P305/P351/P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P302/P352      | IF ON SKIN: Wash with plenty of soap and water.                                                                                  |

#### **Unclassified Hazards/Hazards Not Otherwise Classified**

No data available

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

|                           |                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Synonyms:</b>          | 3-(1,4-Dihydro-5-methyl-4-oxo-7-propylimidazo[5,1-f][1,2,4]triazin-2-yl)-4-ethoxy-benzenesulfonyl Chloride |
| <b>Molecular Weight:</b>  | 410.88                                                                                                     |
| <b>Molecular Formula:</b> | C <sub>17</sub> H <sub>19</sub> ClN <sub>4</sub> O <sub>4</sub> S                                          |
| <b>CAS Registry #:</b>    | 224789-26-8                                                                                                |

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

#### **Description of First Aid Measures**

##### **General Advice**

If medical attention is required, show this safety data sheet to the doctor.

##### **If Inhaled**

If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

##### **In Case of Skin Contact**

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

##### **In Case of Eye Contact**

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

##### **If Swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

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

No data available

##### **Indication of any Immediate Medical Attention and Special Treatment Needed**

No data available

### **5. FIREFIGHTING MEASURES**

#### **Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Special Hazards Arising from the Substance or Mixture**

Carbon oxides, Nitrogen oxides, Sulfur oxides, Hydrogen chloride

#### **Advice for Firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further Information**

No data available

### **ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautions, Protective Equipment and Emergency Procedures**

Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists.

Adequate ventilation must be provided to ensure dusts or mists are not inhaled.

#### **Environmental Precautions**

Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

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

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13). For protective equipment, refer to Section 8. For disposal, see Section 13.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection. No smoking, eating or drinking around this material. Wash hands after use.

### Conditions for Safe Storage, Including any Incompatibilities

Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10). Store at -20 °C under inert atmosphere.

### Specific End Uses

For scientific research and development only. Not for use in humans or animals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Contains no components with established occupational exposure limits.

### Exposure Controls

#### Appropriate Engineering Controls

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

#### Personal Protective Equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

#### Eye/Face Protection

Safety glasses or safety goggles. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

#### Skin Protection

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

#### Body Protection

Fire resistant (Nomex) lab coat or coveralls.

#### Respiratory Protection

Recommended respirators are NIOSH-approved N95 or CEN-approved FFP2 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                           |                                                 |                           |     |
|---------------------------|-------------------------------------------------|---------------------------|-----|
| Form                      | Solid                                           | Odor                      | N/A |
| Odor Threshold            | N/A                                             | pH                        | N/A |
| Melting/Freezing Point    | 175-177 °C                                      | Boiling Point/Range       | N/A |
| Flash Point               | N/A                                             | Evaporation Rate          | N/A |
| Flammability (Solid/Gas)  | N/A                                             | Upper Explosive Limits    | N/A |
| Lower Explosive Limit     | N/A                                             | Vapor Pressure            | N/A |
| Vapor Density             | N/A                                             | Relative Density          | N/A |
| Auto-Ignition Temperature | N/A                                             | Decomposition Temperature | N/A |
| Viscosity                 | N/A                                             | Explosive Properties      | N/A |
| Oxidizing Properties      | N/A                                             | Partition Coefficient     | N/A |
| Solubility                | Chloroform, Dimethyl Sulfoxide, Dichloromethane | n-octanol/water           |     |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical Stability

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

No data available

**Conditions to Avoid**

No data available

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

No data available

**11. TOXICOLOGICAL INFORMATION****Information on Toxicological Effects****Acute Toxicity**

No data available

**Skin Corrosion/Irritation**

Moderate skin/eye/respiratory tract irritant.

**Serious Eye Damage/Irritation**

No data available

**Respiratory or Skin Sensitization**

No data available

**Germ Cell Mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive Toxicity/Teratogenicity**

No data available

**Single Target Organ Toxicity - Single Exposure**

Moderate respiratory tract irritation

**Single Target Organ Toxicity - Repeated Exposure**

No data available

**Aspiration Hazard**

No data available

**Potential Health Effects and Routes of Exposure**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Signs and Symptoms of Exposure**

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

**Additional Information**

**RTECS:** Not listed

**12. ECOLOGICAL INFORMATION****Toxicity**

no data available

**Bioaccumulative potential**

no data available

**PBT and vPvB assessment**

no data available

**Persistence and degradability**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Product**

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

**Contaminated Packaging**

Dispose of as above.

**Other Considerations**

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION**

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture****Canada**

**DSL/NDSL Status:** This product is not listed on the Canadian DSL/NDSL

**United States**

**TSCA Status:** This product is not listed on the US EPA TSCA.

**European Union**

**ECHA Status:** This product is not registered with the EU ECHA.

**Chemical Safety Assessment**

No data available

**16. OTHER INFORMATION**

*The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.*

2/27/2013