

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
Printdate 10 Jun 2025

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Pyroxasulfone

### 1.1. Catalog No.:

685992

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH  
Am Wieseneck 7

04451 Cunnersdorf  
Deutschland

Tel. +49 34291 3372-36  
Fax. +49 34291 3372-39  
contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

## 2. HAZARDS IDENTIFICATION

2.1/2.2 Classification of the Substance or Mixture and Label Elements  
GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)  
Reproductive Toxicity (Category 2)  
Specific Target Organ Toxicity, Repeated Exposure (Category 1)  
Hazardous to the Aquatic Environment, Acute Hazard (Category 1)  
Hazardous to the Aquatic Environment, Long-Term Hazard (Category 1)

### 2.2. Label elements

#### 2.2.1. Pictogram



#### 2.2.2.

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)  
GHS Hazard Statements  
H361

H372

H400

H410

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Danger

GHS Precautionary Statements

Signal Word

P260

P264

P273

P314

P308/P313

Do not breathe dust/fume/gas/mist/vapours/spray

Wash hands thoroughly after handling.

Avoid release to the environment.

Get medical advice/attention if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Formula: C<sub>12</sub>H<sub>14</sub>F<sub>5</sub>N<sub>3</sub>O<sub>4</sub> S

Molecular Weight: 391.31

CAS Registry #: 447399-55-5 EC#: 243-175-0

Synonyms

3-[[[5-(Difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethyl-isoxazole;

3-[5-

(Difluoromethoxy)-1-methyl-3-(trifluoromethyl)pyrazol-4-ylmethylsulfonyl]-4,5-dihydro-5,5-dimethyl-1,2-oxazole; KIH 485;

Sakura;

Sakura 850 WG; Sakura 85WG

3.2 Mixtures Not a mixture

#### 3.1.1. Formula

C<sub>12</sub>H<sub>14</sub>F<sub>5</sub>N<sub>3</sub>O<sub>4</sub>S

#### 3.1.2. Molecular Weight (g/mol)

391.31

### 3.1.3. CAS-No.

447399-55-5

## 4. FIRST AID MEASURES

### 4.1 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 person 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.

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

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

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

No data available

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

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

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

Carbon oxides, Nitrogen oxides, Sulfur oxides, Hydrogen fluoride

### 5.3 Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary. Use personal protection equipment.

### 5.4 Further Information No data available

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

### Evacuate

personnel to safe areas. Avoid breathing dust. Avoid contact with skin, eyes or clothing.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Method and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.  
Keep in a dry place.

Storage conditions: -20°C Freezer

### 7.3 Specific End Uses

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

Contains no components with established occupational exposure limits.

### 8.2 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 goggles or face shield. 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.

Gloves used for incidental exposures (splash protection) should be designated as «chemical resistant» by EU standard EN 374 with

the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.

Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated «chemical resistant» as per EN 734 with the resistance

codes corresponding to the anticipated use of the material.

Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.

Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

#### Body Protection

Fire resistant (Nomex) lab coat or coveralls.

#### Respiratory Protection

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 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

### 9.1 Information on Basic Physical and Chemical Properties

A) Appearance White to Off-White Solid

B) Odour No data available

C) Odour Threshold No data available

- D) pH No data available
- E) Melting Point/Freezing Point 131 - 133°C
- F) Initial Boiling Point/Boiling Range No data available
- G) Flash point No data available
- H) Evaporation Rate No data available
- I) Flammability (Solid/Gas No data available
- J) Upper/Lower Flammability/Explosive Limits No data available
- K) Vapour Pressure No data available
- L) Vapour Density No data available
- M) Relative Density No data available
- N) Solubility Chloroform (Slightly), Methanol (Slightly)
- O) Partition Coefficient: n-octanol/water No data available
- P) Auto-Ignition Temperature No data available
- Q) Decomposition Temperature No data available
- R) Viscosity No data available
- S) Explosive Properties No data available
- T) Oxidizing Properties No data available

## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity No data available.
  - 10.2 Chemical Stability Stable under recommended storage conditions.
  - 10.3 Possibility of Hazardous Reactions No data available
  - 10.4 Conditions to Avoid No data available
  - 10.5 Incompatible Materials Strong oxidizing agents.
  - 10.6 Hazardous Decomposition Products
- In the event of fire: See section 5. Other decomposition products: No data available.

## 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on Toxicological Effects
  - A) Acute Toxicity  
Oral LD50: No data available. Inhalation LC50: No data available.  
Dermal LD50: No data available.
  - B) Skin Corrosion/Irritation No data available
  - C) Serious Eye Damage/Irritation No data available
  - D) Respiratory or Skin Sensitization No data available
  - E) Germ Cell Mutagenicity No data available
  - F) Carcinogenicity No data available
  - G) Reproductive Toxicity/Teratogenicity Laboratory results have shown reproductive toxicity/teratogenicity in animal models
  - H) Single Target Organ Toxicity - Single Exposure No data available
  - I) Single Target Organ Toxicity - Repeated Exposure No data available
  - J) Aspiration Hazard No data available
  - K) Potential Health Effects and Routes of Exposure Inhalation May be harmful if inhaled. May cause respiratory tract irritation.  
Ingestion May be harmful if swallowed.  
Skin May be harmful if absorbed through skin. May cause skin irritation  
Eyes May cause eye irritation.
  - L) Signs and Symptoms of Exposure The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.
  - L) 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
  - M) Additional Information RTECS Not available

## 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity  
No data available.
- 12.2 Persistence and Degradability  
No data available.
- 12.3 Bioaccumulative Potential  
No data available.
- 12.4 Mobility in Soil  
No data available.
- 12.5 Results of PBT and vPvB Assessment  
No data available.
- 12.6 Other Adverse Effects  
No data available

## 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste Treatment Methods
  - A) 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.
  - B) Contaminated Packaging  
Dispose of as above.
  - C) Other Considerations  
Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

## 14. TRANSPORT INFORMATION

- 14.1 UN Number  
DOT (US): N/A IATA: UN3077 IMDG: UN3077 ADR/RID: N/A
- 14.2 UN Proper Shipping Name  
DOT (US)/IATA:  
IMDG/ADR/RID:  
Not dangerous goods / Environmentally hazardous substance, solid, n.o.s. (Pyroxasulfone)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Pyroxasulfone) / Not dangerous goods
- 14.3 Transport Hazard Class(es)  
DOT (US): N/A IATA: 9 IMDG: 9 ADR/RID: N/A
- 14.4 Packing Group  
DOT (US): N/A IATA: III IMDG: III ADR/RID: N/A
- 14.5 Environmental Hazards  
DOT (US): None IATA: None IMDG: Marine pollutant ADR/RID: None
- 14.6 Special Precautions for User None

## 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).
- 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture
    - A) CanadaDSL/NDL Status: This product is not listed on the Canadian . DSL/NDL

B) United States TSCA Status: This product is not listed on the US EPA TSCA.  
C) European Union ECHA Status: This product is not registered with the EU ECHA.  
15.2 Chemical Safety Assessment  
No data available

## 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!