



# SAFETY DATA SHEET

## 1. IDENTIFICATION

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### 1.1 Product identifiers

Product Name 4,6-Difluoro-2-methylsulfanyl-5-phenoxy-1H-benzimidazole  
CAS No. 2135332-47-5  
Catalog No. akf23053

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

Identified uses: For laboratory research purposes. Not for drug or household use.

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

Company Achmem, LLC  
Email custv@achmem.com  
Telephone +1-(901)246-3840

### 1.4 Emergency phone number

Emergency phone (USA): +1-(901)246-3840

## 2. HAZARD IDENTIFICATION

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### 2.1 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  
Acute toxicity, inhalation (Category 4) H332

### 2.2 Signal word, hazard statement(s), symbol(s) and precautionary statement(s)



#### Pictogram:

Signal word: Warning

#### Hazard statement(s)

H302: Harmful if swallowed  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
H332: Harmful if inhaled

#### Precautionary statement(s)

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...  
P301+P312: (Deleted) IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.  
P302+P334: IF ON SKIN: Immerse in cool water or wrap in wet bandages.  
P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present



and easy to do - continue rinsing.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – None**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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Formula: C14H10F2N2OS

Molecular Weight: 292.3

Component		Concentration
4,6-Difluoro-2-methylsulfanyl-5-phenoxy-1H-benzimidazole		
CAS No.	2135332-47-5	-

**4. FIRST AID MEASURES**

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**4.1 Description of necessary measures**

**If inhaled**

If inhaled, relocate to an area with fresh air. If not breathing, administer artificial respiration. Seek medical advice promptly.

**In case of skin contact**

In case of contact, immediately wash skin with soap and copious amounts of water.

**In case of eye contact**

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**If swallowed**

If swallowed, avoid inducing vomiting. Offer more than two bottles of water to drink. Seek immediate medical guidance.

**4.2 Most important symptoms/effects, acute and delayed**

The key symptoms and effects are outlined in the labeling (refer to section 2.2) and/or section 11.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

No data available.

**5. FIRE FIGHTING MEASURES**

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**5.1 Suitable extinguishing media**

Suitable: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

**5.2 Specific hazards arising from the chemical**

Emits toxic fumes under fire conditions.

**5.3 Special protective equipment and precautions for fire-fighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment, and emergency procedures**

Use respiratory protection. Avoid inhaling vapors, mist, or gas. Ensure proper ventilation. Evacuate people to safe areas. Do not take action without appropriate protective clothing. Refer to section 8 for personal protection measures.

**6.2 Methods and materials for containment and cleaning up**

Sweep up. Transfer to a correctly labeled salvage container for disposal. Take care to prevent dust from dispersing. Ventilate the area and wash the spill site after collecting the material.



**7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Minimize skin and eye contact. Prevent the generation of dust and aerosols. Thoroughly wash hands after handling. Ensure adequate ventilation in the area. Implement standard fire prevention measures. Refer to section 2.2 for additional precautions.

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

Store tightly sealed in a dry environment. Place in a well-ventilated area. Ensure it is locked up or accessible only to qualified or authorized individuals.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**8.1 Control parameters**

**Components with workplace control parameters**

No substances present with occupational exposure limit values.

**8.2 Exposure controls**

**Respiratory Protection**

Utilize respirators and components that have been tested and approved according to relevant government standards, such as NIOSH (US) or CEN (EU). If the risk assessment indicates that air-purifying respirators are suitable, employ a dust mask of type N95 (US) or type P1 (EN 143).

**Hand Protection**

Compatible chemical-resistant gloves.

**Eye Protection**

Chemical safety goggles.

**Body Protection**

Protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State	Solid
Form	Powder
Color	White
pH	No data available
BP/BP Range	No data available
MP/MP Range	No data available
Flash Point	No data available
Flammability	No data available
Autoignition Temp	No data available
Oxidizing Properties	No data available
Explosive Properties	No data available
Explosion Limits	No data available



Vapor Pressure	No data available
SG/Density	No data available
Partition Coefficient	No data available
Viscosity	No data available
Vapor Density	No data available
Saturated Vapor Conc.	No data available
Evaporation Rate	No data available
Bulk Density	No data available
Decomposition Temp.	No data available
Solvent Content	No data available
Water Content	No data available
Surface Tension	No data available
Conductivity	No data available
Miscellaneous Data	No data available
Solubility	No data available

**10. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**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 (e.g., static discharge, shock, or vibration)**

No data available.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon monoxide, Carbon dioxide, Nitrogen oxides.

**11. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**11.1 Information on toxicological effects**

Acute toxicity: No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.



Specific target organ toxicity - single exposure: No data available.  
Specific target organ toxicity - repeated exposure: No data available.  
Aspiration hazard: No data available.

**11.2 Additional Information**

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

**12. ECOLOGICAL INFORMATION**

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**12.1 Ecotoxicity (aquatic and terrestrial, where available)**

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 Other adverse effects (such as hazardous to the ozone layer)**

No data available.

**13. DISPOSAL CONSIDERATIONS**

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Seek assistance from a licensed professional waste disposal service for proper disposal of this material. Alternatively, dissolve or blend the material with a combustible solvent and incinerate it in a chemical incinerator with an afterburner and scrubber. Dispose of in accordance with official regulations.

**14. TRANSPORT INFORMATION**

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**14.1 UN number**

No data available.

**14.2 UN proper shipping name**

No data available.

**14.3 Transport hazard class(es)**

No data available.

**14.4 Packaging group**

No data available.

**14.5 Environmental hazards**

No data available.

**14.6 Special precautions for user**

No special precautions required.

**14.7 Further information**

No data available.

**15. REGULATORY INFORMATION**

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**15.1 California proposition 65**

Not listed on California's listing of known or potential carcinogens.

**15.2 U.S. Federal regulations**

SARA 313: Not applicable.

SARA 302: Not applicable.



SARA 311/312 Hazard Categories: See section 2 for more information.

### **15.3 Safety assessment**

No Chemical Safety Assessment.

### **16. OTHER INFORMATION**

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The information provided is believed to be accurate but may not cover all scenarios and should be used as a general reference. It is based on current knowledge and applies to the product's safety precautions. This information does not guarantee the product's properties. Achmem, LLC is not responsible for any damages resulting from handling or contact with the product.