

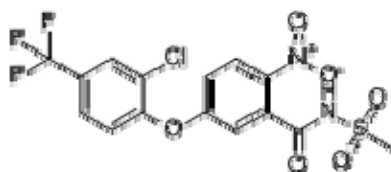
MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

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1. Chemical Product Identification

Product Name: Fomesafen
Molecular Formula: C₁₅H₁₀ClF₃N₂O₆S
Molecular Weight: 438.76



Structural Formula:

Chemical Name:
5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-nitrobenzamide
Form: Solid
Color: Brown
Odor: Not available
CAS No.: 72178-02-0

2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Fomesafen	72178-02-0	25.0
Other ingredients		75.0

3. Hazards Identification

Symptoms of Acute Exposure: Causes eye and skin irritation. Allergic skin reactions are possible.

4. First Aid Measures

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Then call a doctor.

Eye Contact: if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

5. Fire-Fighting Measures

Unusual Fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire: Use dry chemical, foam or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

Flammability: Not Flammable

Flash Point (Test Method): > 212°F

6. Accidental Release Measures

In Case of Spill or Leak: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. Handling And Storage

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application

in areas where there is a potential for exposure to the material.
Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles.
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

9. Physical and Chemical Properties

PH: 7.2 - 9

Melting Point: 219°C

Relative density : 1.61@20°C

Vapor pressure: <0.004mPa@20°C

Partition coefficient: Kow logP=2.9(pH=1) ; <2.2(pH=4-10)

pKa=2.7@20°C

10. Stability and Reactivity

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Materials to Avoid: Oxidizing agents.

11. Toxicological Information

Acute oral LD50(rat): male 1250-2000mg/kg, Female 1600mg/kg

Acute dermal LD50(rabbit): >1000mg/kg

Inhalation LC50 (4h); male rat 4.97mg/l

Skin contact: slight irritant (rabbit)

Eye contact: slight irritant (rabbit)

12. Ecological And Ecotoxicological Information

Mallard acute oral LD50: >5000mg/kg Mallard

and quail LD50(5d): >20000mg/kg Rainbow

trout LC50: 170mg/l (96h)

Bluegill LC50: 1507mg/l(96h)

Low toxic to bee: bee LD50: 50µg/bee(oral); 100µg/bee(contact)

Earthworm LD50(14d) : >1000mg/kg soil

13. Disposal Considerations

Not applicable

14. Transport Information

Not applicable



15. Regulatory Information

Not applicable

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.