

河北捷润科技有限公司

Hebei JRain Technology Co., Ltd.

Date: Dec 4th, 2023

Material Safety Data Sheet

flutriafol, tech. 96%

Section 1 - Chemical Product and Company Identification

MSDS Name: flutriafol, tech. 96%

Synonyms: alpha-(2-fluorophenyl)-alpha-(4-fluorophenyl)-1H-1,2,4-triazole-1-ethanol, impact, PP 450

Company Identification:

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Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
76674-21-0	alpha-(2-fluorophenyl)-alpha-(4-fluorophenyl)-1H-1,2,4-triazole-1-ethanol	96

Hazard Symbols: F,Xn

Risk Phrases: 11-20/21/22-36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: solid.

Emergency overview:

Flammable (USA) Highly Flammable (EU).Harmful.

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Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes.

HMIS RATING:

HEALTH: 2

FLAMMABILITY: 3

REACTIVITY: 0

NFPA RATING:

HEALTH: 2

FLAMMABILITY: 3

REACTIVITY: 0

For additional information on toxicity, please refer to section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Call a physician.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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Section 5 - Fire Fighting Measures

FLAMMABLE HAZARDS

Flammable hazards: Yes

EXPOLUSION HAZARDS:

Vapor may travel considerable distance to source of ignition and flash back. Container explosion can occur under fire conditions. In advanced or massive fires the area should be evacuated and the fire should be fought from a remote explosion-resistant location.

FLASH POINT: 35.6 °F 2°C

EXPLOSION LIMITES

Lower: 3% Upper: 16%

AUTOIGNITION TEMP:525 °C

FLAMMABILITY: N/A

EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazards: Flammable solid. Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

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Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling: Do not breathe vapor. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation.

Storage: Store in a cool, dry place. Store in a tightly closed container. Corrosives area. Store at 2-8 °C.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Respiratory: government approved respirator.

Eyes: chemical safety goggles

Hand: compatible chemical-resistant gloves.

Section 9 - Physical and Chemical Properties

Physical State: solid

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

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Decomposition Temperature: Not available.

Solubility: slight in water.

Specific Gravity/Density: Not available.

Molecular Formula: C₁₆H₁₃F₂N₃O

Molecular Weight: 130°C

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: strong oxidizing agents.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, acid chlorides, acid anhydrides.

Hazardous Decomposition Products: nature of decomposition products not known.

Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

CAS# 76674-21-0

LD50/LC50:

ORL-RAT LD50 1140 mg kg-1

ORL-MUS LD50 179 mg kg-1

SKN-RAT LD50 > 1000 mg kg-1

ROUTE OF EXPOSURE

SKIN CONTACT: may cause skin irritation

Skin absorption: Harmful if absorbed through skin.

Eye contact: causes eye irritation.

Inhalation: material may be irritation to mucous membranes and upper respiratory tract.
Harmful if inhaled.

Ingestion: harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

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

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Section 12 - Disposal Considerations

No data available.

Section 13 - Regulatory Information

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and local environmental regulations.

Section 14 – transport information

Hazard Class:---

UN No.: ---

Packing Group:----

Section 15 – regulatory information

MSDS Creation Date: 05/08/2002

Revision #3 Date: 8/15/2013

Section 16 - Additional Information

The above information is based on the date of which we are aware and it believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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