

河北捷润科技有限公司

Hebei JRain Technology Co., Ltd.


Date: Jun.9th, 2025

MSDS OF OXYFLUORFEN TECH

1. IDENTIFICATION OF SUBSTANCE:

Product name: Oxyfluorfen TC
Other name: IUPAC name: 2-chloro-a,a,a-trifluoro- <i>p</i> -tolyl 3-ethoxy-4-nitrophenyl ether
Use: Control of annual broad-leaved weeds and grasses in a variety of tropical and subtropical crops, by pre- or post-emergence application. Particular crops include tree fruit (including citrus), vines, nuts, cereals, maize, soya beans, peanuts, rice, cotton, bananas, peppermint, onions, garlic, ornamental trees and shrubs, and conifer seedbeds
Name, Address and Telephone of Manufacturer or Supplier: HEBEI JRRAIN TECHNOLOGY CO.,LTD. No. 66 XIANGTAI ROAD, YUHUA DISTRICT, SHIJIAZHUANG CITY, HEBEI PROVINCE,CHINA
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2. HAZARDS IDENTIFICATION

Goods classification and country or region information: (a) The forth category of acute toxicity, (b) The first class of the skin sensitization, (c) the first class of the acute aquatic toxicity, (d) the first class of chronic aquatic toxicity.
GHS label elements, including Precaution statements: 
Signal words: Caution
Hazards statements: Health hazard: Harmful if product entries into body by inhalation, ingestion or skin. It can releases irritation, corrosive or toxic chlorine, fluorine and nitrogen oxide on high heat. Environment hazard: Toxic to aquatic organisms and can cause long-term bad effects. Explosion hazard: flammable under high temperature high heat.
Precaution statements: Skin: Get off the contaminated clothing, wash with plenty of soap and water for at least 15 minutes. Seek medical advice. Eye: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice. Inhaled: Remove to fresh air and observe until recovered. Give oxygen If breathing is difficult, Immediate artificial respiration if breathing stops. Ingestion: Drinking enough mild water, vomiting, gastric lavage, and purging. Seek medical advice. Dispose of contents/container to ...
Other risks that do not result in classification (such as dust devil dangerous) or is not covered by the GHS hazard: /

3. COMPOSITION/DATA ON COMPONENTS:

Pure substance:

Chemical name: Oxyfluorfen
Common name: Oxyfluorfen

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CAS No.: 42874-03-3

Substance Ingredient(100% composition): Oxyfluorfen 97.0%, rest is normally process-products during the production.

Mixture:

Chemical property: /

Substance Ingredient: /

Content or content range (100% composition): /

4. FIRST AID MEASURES

First aid method of different exposure routes: /

Inhaled: Remove to fresh air and observe until recovered. Give oxygen If breathing is difficult, Immediate artificial respiration if breathing stops.

Skin: Get off the contaminated clothing, wash with plenty of soap and water for at least 15 minutes. Seek medical advice.

Eye: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

Ingestion: Drinking enough mild water, vomiting, gastric lavage, and purging. Seek medical advice.

The most important symptoms and risks of effects: /

Protection method of first-aid personnel: Wear gas masks

Seek medical advice immediately and the requirement of specific treatment when necessary: /

5. FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media: water spray, foam, dry chemical, CO₂, sand soil and so on.

Specific risks of chemicals: Combustible in case of fire and heat. It can releases toxic gas on high heat.

Hazardous decomposition products: CO, CO₂, NO_x, XCL, FX。

Special fire fighting process: /

Special protective equipment and precautions for fire personnel: The fire fighter must wear the gas mask, put on the whole body fire-fighting suit, in winning side to fire fighting.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: isolate spill contaminated areas, limit access, cut off the source of fire. Recommended emergency personnel wear respirators, wear clothes-General jobs. Not suitable for direct contact with the spill.

Environment protection measure: /

Cleaning methods and materials: small spill: avoid dust, carefully sweep, collecting to the disposal of waste disposal sites. Big spill: collection or transport to waste disposal sites.

7. HANDLING AND STORAGE

Safe handling precautions or preventive measures: closed operation, local exhaust ventilation. The operator must go through specialized training, and strictly abide by the rules. Suggested the operating personnel wearing self-absorption filter respirators, wearing chemical protective safety glasses, to penetrate the gas-protective clothing, wearing anti-chemical gloves. Keep away from fire, power. No smoking in workplace, use explosion-proof ventilation equipment. Avoid producing smoke. Avoid contact with strong oxidants. Equipped with the appropriate number and variety of fire-fighting equipment and

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spill response equipment. The empty containers may be harmful.

Safe storage conditions: Store in a cool, ventilated place. Keep away from fire and heat source. Keep container closed. Keep away from strong oxidizers, flammable, food chemicals, etc. It should be stored separately, avoid mixing reservoir. The storage area should be equipped with appropriate types and quantities of fire-fighting equipment as well as a suitable material spill.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: closed-loop operation, local exhaust ventilation to keep airborne.

Control parameter: /

Occupational exposure limit values: /

Organisms limit values: /

Personal Protective Equipment: /

Respiratory Protection: It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, a mask or respirator may be preferred.

Hand protection: Impermeable protective gloves should be worn.

Eye Protection: Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eye wear.

Skin and body protection: Clean overalls or protective clothing should be worn, preferably with an apron.

Hygiene measures: No smoking, eating and drinking in the work place. Always wash hands before smoking, eating, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. Maintain good health habits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical State, Color and so on):	croci solid powder
Odor:	/
odor threshold value	/
PH:	/
Freezing/Melting Point (°C):	85-90 °C
Boiling point (°C):	358.2 °C
Flash point (°C):	/
Evaporation rate:	/
Flammability (solid、gaseity)	/
Specific Gravity/Density: (water=1):	1.35 (73 °C)
Explosion Limits, lower and upper:	/
Vapor Pressure: (kpa):	0.0267 mPa (25 °C)
Vapor gravity/density:	/
Relatively density:	/
Solubility:	Soluble in water: 0.116 mg/l (25 °C) Soluble in organic solvent: Readily soluble in most organic solvents, e.g. acetone 72.5, cyclohexanone, isophorone 61.5, dimethylformamide >50, chloroform 50-55, mesityl

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	oxide 40-50 (all in g/100 g, 25 °C).
Partition coefficient: n-octanol/water:	$K_{ow} \log P = 4.47$
Auto ignition Temperature:	/
Decomposition Temperature:	/

10. STABILITY AND REACTIVITY

Stability: stable
Possibility of hazardous reactions: Combustible in case of fire and heat. It can releases toxic gas on high heat.
Conditions to be avoided (if still unloaded, shock or vibration): /
Incompatible substances and materials: strong oxidizers
Hazardous decomposition products: CO, CO ₂ , NxOy、XCL、FX

11. TOXICOLOGICAL INFORMATION

Exposure pathway: inhalation, ingestion, skin contact, eye contact.
Symptoms of physical, chemical and toxicological characteristics: /
Acute toxicological: slightly irritating to skin, moderate irritation to eye. Generally does not cause systemic toxicity.
Chronic or long-term toxicity: /
The numerical measures of toxicity (such as acute toxicity estimates): Acute Dermal LD50: > 2000 mg/kg (rabbit) Acute Oral LD50: > 5000 mg/kg (rat), Acute Inhalation LC50: LC50-4hr (rat):> 2.03 mg/l air

12. ECOLOGICAL INFORMATION

Ecotoxicological information:
Birds: Acute LD ₅₀ for bobwhite quail >2150 mg/kg. Dietary LC ₅₀ (8 d) for mallard ducks and bobwhite quail >5000 ppm.
Fish: LC ₅₀ (96 h) for bluegill sunfish 0.2, trout 0.41, channel catfish 0.4 mg/l.
Persistence and degradability: /
Bioconcentration: /
Mobility in soil: /
Other adverse effects: Not toxic to honeybees at 0.025 mg a.i./bee

13. DISPOSAL CONSIDERATIONS

Description of waste residues and waste disposal methods (including the disposal of contaminated packaging): prior to disposal, please refer to the relevant national and local laws and regulations, with a secure landfill disposal. Bury empty container in provisions place.

14. TRANSPORT INFORMATION

UN No.: 3077
UN transport name: Oxyfluorfen
Transport hazard class: 9 miscellaneous dangerous substances
Packing Group: III
Ocean contamination (yes/no): yes

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Special delivery methods and points for attention: transport should first check that the container is full and seal, to keep the containers are not leak during transport, no collapse, no drops, no damage. Strictly prohibited to mix with acid, alkali, and food additives. Transport vehicles should be equipped with the appropriate variety and number of fire-fighting equipment and spill response equipment. In transit against sunlight and rain, and against high temperatures.

15. REGULATORY INFORMATION

Applicable law (for provisions on product safety, health and environment):

《Regulations on the Control over Safety of Dangerous Chemicals》(Decree No. 344 of the State Council of the People's Republic of China)

《List of dangerous goods》(GB12268-2005)

《Classification and code of dangerous goods》(GB6944-2005)

《General rules for preparation of chemical safety data sheet》(GB16483-2000)

《Classification and labels of dangerous chemical substances commonly used》(GB13690-92)

16. OTHER INFORMATION

References:	The e-pesticide manual	
Form company:	Company: HEBEI JRAIN TECHNOLOGY CO.,LTD.	
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Form marker:	Title: /	Name: Candy Chen
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