

江苏省农用激素工程技术研究中心有限公司

JIANGSU AGROCHEM LABORATORY CO., LTD

98 Minjiang Road, Hi-tech Zone, Changzhou, Jiangsu 213022, China

Fax:+86-519-85108097 Email:zhonghuachen@jsmone.com

Tel:+86-519-85109160 URL:http://www.jsmone.com

Material Safety Data Sheet for Tribenuron-methyl

40g/kg+Thifensulfuron-methyl 40g/kg + Fluroxypyr 360g/kg WG

Section 1. Product and Company Identification

Product Name: Tribenuron-methyl40g/kg+Thifensulfuron-methyl40g/kg +Fluroxypyr 360g/kg WG

Use Catalogue: Herbicide

Company's Name: Jiangsu Agrochem Laboratory Co., Ltd

Company's Street: 98 Minjiang Rd, Hi-Tech Development Zone

Company's City: Changzhou

Company's Country: China

Company's Zip Code: 213022

Company's Telephone: 86-519-5109160

Section 2. Composition/Information on Ingredients

Composition:

Name	CAS No	Content
Active ingredients: Tribenuron-methyl	101200-48-0	40g/kg
Active ingredients: Thifensulfuron-methyl	79277-27-3	40g/kg
Active ingredients: Fluroxypyr	81406-37-3	360g/kg
Other ingredients	---	Up to 1000g/kg

Only the identities of the active ingredient(s) and any hazardous inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

Section 3. Hazards Identification

EMERGENCY OVERVIEW

WARNING: CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING

HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN

WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING

WEAR PROTECTIVE EYEWEAR

KEEP OUT OF REACH OF CHILDREN

Acute Health Hazards

Eye: Causes substantial but temporary eye injury.



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Skin: May cause slight skin irritation. This substance is not a contact sensitizer.

Ingestion: Single dose oral toxicity is low.

Inhalation: Single dose inhalation toxicity is low.

Chronic Health Hazards (Including Cancer): Fluroxypyr is classified as a "not likely" human carcinogen. No carcinogenic effects were observed in animal tests with Thifensulfuron Methyl. Tribenuron Methyl produced an increased incidence of mammary tumors in female rats at dose levels also producing other significant effects.

Teratology (Birth Defects) Information: Fluroxypyr does not demonstrate developmental toxicity. Thifensulfuron Methyl does not produce genetic damage in bacterial or mammalian cell cultures or animals. Tribenuron Methyl did not produce genetic damage in bacterial or mammalian cell cultures or in animals.

Reproduction Information: Fluroxypyr does not demonstrate reproductive toxicity. Tests in animals exposed to Thifensulfuron Methyl demonstrate no reproductive toxicity. No reproductive effects were observed in rats exposed to Tribenuron Methyl.

Section 4. First Aid Measures

Skin: 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.

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 9-1-1 or an ambulance and then give artificial respiration. If breathing is difficult, oxygen should be given by qualified personnel.

NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5. Fire and Explosion Data

Flammable Limits in Air (% by volume):		
	Upper:	NA
	Lower:	NA
Flash Point		NA
	Method Used:	NA
Autoignition Temperature:		NDA
LEL/UFL:		NA
NFPA Hazard Classification:		



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	Health:	2
	Flammability:	1
	Reactivity:	0
	Other:	None
Extinguishing Media:		Foam, CO ₂ , or dry chemical
Special Fire Fighting Procedures:		Foam fire-extinguishing system is preferred because uncontrolled water can spread possible contamination. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Read the entire document. Special Protective Equipment: Wear positive pressure self-contained breathing apparatus.
Hazardous Combustion Products:		Toxic irritating gases and fumes will be formed.

Section 6. Accidental Release Measures

If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away

Section 7. Handling and Storage

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read entire label.

Use strictly in accordance with label precautionary statements and directions.

HANDLING PROCEDURES: KEEP OUT OF REACH OF CHILDREN AND ANIMALS

Personnel handling this product should be thoroughly trained as to its hazards. Do not ingest. Do not breathe dust, vapors or mists. Avoid getting material on clothing. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.

STORING PROCEDURES: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage.

WORK/HYGIENIC PROCEDURES: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.
MIN/MAX STORAGE: Min Temp: Not determined; Max Temp: Not determined.

Section 8. Exposure Controls/Personal Protection

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Chemical Resistant Gloves, Category G (such as Barrier Laminate or Viton)

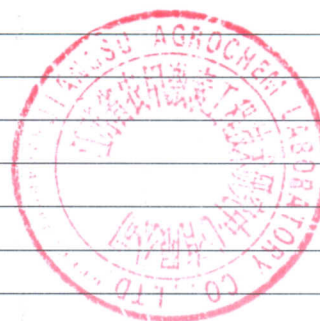
For more options, follow the instructions for Category G on an EPA chemical-resistance category selection chart.

Shoes plus socks

Protective eyewear

Section 9. Physical and Chemical Properties

Appearance:	beige to brown granule
Odor:	Slightly musty odor
Physical State:	Granule
pH:	9-10 (1% suspension)
Boiling Point:	NDA
Melting Point:	NDA
Freezing Point:	NDA
Vapor Pressure:	NDA
Vapor Density:	NDA
Specific Gravity:	NDA
Bulk Density:	Approximately 0.52 g/cm ³
Evaporation Rate:	NDA
Solubility:	NDA
Percent Solid by Weight:	NDA
Percent Volatile:	NDA
Volatile Organic Compounds(VOC):	NDA
Molecular Weight:	NDA
Viscosity:	NA



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Section 10. Stability and Reactivity

Chemical Stability:	Stable
Hazardous Polymerization	Will not occur
Flash Point	NA
Flammable Point	NDA
Auto Ignition	NDA
Incompatibility With Other Materials	Avoid contact with acids, bases, and oxidizing materials.
Hazardous Decomposition Products	Normal combustion forms carbon dioxide and water vapor and may produce oxides of nitrogen.

Section 11. Toxicological Information

Acute:

Eye and Skin: Moderately irritating to eyes (rabbits). Slightly irritating to the skin. Not a contact sensitizer.

Dermal Toxicity: The dermal LD50 in rats is > 2 g/kg.

Oral Toxicity: The oral LD50 in female rats is > 5 g/kg.

Inhalation Toxicity: The 4-hour LC50 in rats is > 2.07 mg/L

Chronic Health Hazards (Including Cancer): Fluroxypyr is classified as a "not likely" human carcinogen. No carcinogenic effects were observed in animal tests with Thifensulfuron Methyl. Tribenuron Methyl produced an increased incidence of mammary tumors in female rats at dose levels also producing other significant effects.

Teratology (Birth Defects) Information: Fluroxypyr does not demonstrate developmental toxicity. Thifensulfuron Methyl does not produce genetic damage in bacterial or mammalian cell cultures or animals. Tribenuron Methyl did not produce genetic damage in bacterial or mammalian cell cultures or in animals.

Reproduction Information: Fluroxypyr does not demonstrate reproductive toxicity. Tests in animals exposed to Thifensulfuron Methyl demonstrate no reproductive toxicity. No reproductive effects were observed in rats exposed to Tribenuron Methyl

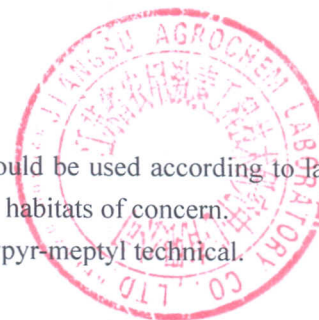
Section 12. Ecological Information

Aquatic Organism Toxicity: As with any pesticide, this product should be used according to label directions and should be kept out of streams, lakes and other aquatic habitats of concern.

The following information is based on the active ingredient, Fluroxypyr-meptyl technical.

Fish toxicity: LC₅₀ (96-hr) > solubility limit (Rainbow trout)

LC₅₀ (96-hr) > solubility limit (Golden orfe)



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Invertebrate toxicity: EC₅₀ (48-hr) > solubility limit (Daphnia magna)

EC₅₀ (96-hr) > solubility limit (green algae)

Avian Toxicity: Fluroxypyr-meptyl is not toxic to birds.

Acute oral LD₅₀ (Bobwhite quail): > 2000 mg/kg

Acute oral LC₅₀ (Mallard duck): > 2000 mg/kg

Other Non-Target Organisms: Fluroxypyr-meptyl is not toxic to bees

The acute LD₅₀ is > 100 g/bee for oral and > 100 g/bee for direct contact

The following information is based on the active ingredient, Thifensulfuron Methyl technical

Fish toxicity: LC₅₀ (96-hr) 410 mg/L (Rainbow trout)

LC₅₀ (96-hr) 520 mg/L (Bluegill sunfish)

Invertebrate toxicity: LC₅₀ (48-hr) 970 mg/L (Daphnia magna)

NOEC (120-hr) 15.7 mg/L (green algae)

Avian Toxicity: Thifensulfuron Methyl is not toxic to birds.

Acute oral LC₅₀ (Mallard duck): > 2510 mg/kg

Other Non-Target Organisms: Thifensulfuron Methyl is not toxic to bees.

The acute topical (48-hr) LD₅₀ is > 12.5 g/bee.

The following information is based on the active ingredient, Tribenuron Methyl technical.

Fish toxicity: LC₅₀ (96-hr) 738 mg/L (Rainbow trout)

Invertebrate toxicity: LC₅₀ (48-hr) 894 mg/L (Daphnia magna)

EC₅₀ (120-hr) 20.8 g/L (green algae)

Avian Toxicity: Tribenuron Methyl is not toxic to birds.

Acute oral LD₅₀ (Bobwhite quail): > 2250 mg/kg

Other Non-Target Organisms: Tribenuron Methyl is not toxic to bees.

The acute oral LD₅₀ is > 9.1 g/bee.

Section 13. Disposal Considerations

Check governmental regulations and local authorities for approved disposal of this material.

Dispose in accordance with applicable laws and regulations

Section 14. Transport Information

For non-bulk and bulk shipments by all modes of transportation.

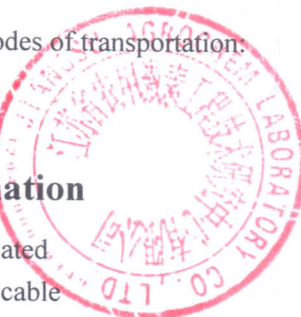
This material is not regulated for transport.

Section 15. Regulatory Information

UN No.: Not regulated

Proper Shipping Name: Not applicable

Class and Packing Group: Not applicable



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Section 16. Other Information

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