

Date: May 18th, 2023

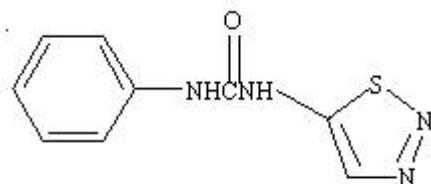
Material Safety Data Sheet

Thidiazuron 98%TC

Section 1 - Product and Company Identification

Material Identification

CAS Number : 51707-55-2
Formula : C₉H₈N₄OS
Molecular Weight : 220.2
CAS Name : Thidiazuron
Structural Formula



Tradenames and Synonyms

Thidiazuron 98%TC
1-phenyl-3- (1,2,3-thiadiazol-5-yl) urea

Company Identification

MANUFACTURER:

HEBEI JRAIN TECHNOLOGY CO.,LTD.

No. 66 XIANGTAI ROAD, YUHUA DISTRICT, SHIJIAZHUANG CITY, HEBEI

PROVINCE,CHINA

Telephone: (86)311-80680379

Emergency : 86-311-80683080

Section 2 - Compositon/Information on Ingredients

Material	CAS Number	%
Thidiazuron	51707-55-2	98
WATER	7732-18-5	0.5

Section 3 - Hazards Identification Including Emergency Overview

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Potential Health Effects

Eyes: May cause mild irritation to eyes

Skin: Harmful if absorbed through the skin. Not known to be a skin irritant. Does not cause allergic skin reactions.

Ingestion: Harmful if swallowed; No specific health effects are known for ingestion of a small amount incidental to routine handling and use.

Inhalation: Harmful if inhaled. Excessive dust inhalation in a confined area may cause congestion and irritation to the respiratory system.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Section 4 - First Aid Measures

First Aid

INHALATION

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

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, immediately give 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

Section 5 - Fire Fighting Measures

Flash point: Does not flash

Fire and explosion hazards: The product powder is combustible and will sustain flame when in contact with fire. Dispersion of fine dust in the air can form an explosion mixture. May decompose at high temperatures and give off poisonous oxides.

Extinguishing media: Water, foam, dry powder or carbon dioxide.

Fire fighting instructions: wear self-contained breathing apparatus.

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Section 6 - Accidental Release Measures

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Clean Up

Shovel or sweep up.

Accidental Release Measures

Place in containers for proper disposal.

Section 7 - Handling and Storage

Handling (Personnel)

Avoid breathing dust. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Wash thoroughly after handling.

Handling (Physical Aspects)

Avoid dust generation. Keep away from heat, sparks and flames.

Storage

Keep container tightly closed.

Section 8 - Exposure Controls & Personal Protection

Exposure limits not established

Eye/Face	: Safety Glasses.
Respirator	: Use a respirator approved for pesticides if excessive dust
Additional	: Wear gloves and negative pressure respirator when sampling
Protective Gloves	: Dust resistant gloves such as vinyl or rubber.

Section 9 - Physical & Chemical Properties

Physical Data

Melting Point	: 210.5~212.5°C
Solubility in Water	: 31mg/l (pH7 25°C)
Form	: CRYSTALLINE powder
Color	: Light yellow
Solubility in Methanol and Ethanol:	4.20g/l (20°C)

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Stability: Rapid converted to photoisomer, 1-phenyl-3-(1,2,4-thiadiazol-3-yl)urea, in presence of light($\lambda > 290\text{nm}$). Hydrolytically stable at room temperature from pH 5-9. No decomposition in accelerated storage stability study.

Section 10 - Stability & Reactivity Data

Chemical Stability

Stable.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposes with heat.

Decomposition temperature is 212.5 °C.

Polymerization

Polymerization will not occur.

Section 11 - Toxicological Information

Oral LD₅₀ (rat): >4000 mg/kg (slightly toxic)

Dermal LD₅₀ (rat): >1000 mg/kg (slightly toxic)

Inhalation LC₅₀ (rat-4hrs): >5.0 mg/L (practically non-toxic)

Eye irritation (rabbit): Slightly irritating

Skin irritation (rabbit): Non-irritating

Skin sensitization (guinea pig): Non-sensitizing

Section 12 - Ecological Information

LD₅₀ Japanese quail > 3160mg/kg

LC₅₀ rainbow trout >19mg/l

LC₅₀ daphnia (48h) > 10 mg/l

LC₅₀ (14d) earthworms > 1400mg/kg

Section 13 - Disposal Considerations

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Remove nonusable solid material and/or contaminated soil, for disposal in an approved and permitted landfill.

Section 14 - Transport Information

Shipping Information

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Suggestion according to IMO IMDG Code.

Shipping name: Environmentally hazardous substance,solid,n.o.s.

Class or Division: 9

UN No.: UN3077

Packing group: III

Shipping Containers: 25kg cardboard drums

Section 15- REGULATORY INFORMATION

Not available

Section 16 - Other Information

Follow standard plant procedures and safety rules for first aid and personnel protective equipment when handling this material.

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