



Tri-DWARF
Industrial Co.Ltd

Tri-DWARF INDUSTRIAL CO., LTD.

ADD: Caifugangwan, No.398 Jiahe Road, Huli District, Xiamen, China, 361006

Tel: 86-592-5230984 / Fax: 86-592-3788260

Email: sales@plantchemical.com

Website: www.plantchemical.com

Material Safety Data Sheet

Thidiazuron (TDZ)

1: Chemical Product and Company Identification

Product Name : Thidiazuron (TDZ)

Catalog Code : 30631018

CAS# : 51707-55-2

RTECS# : YU1395000

TSCA : TSCA 8(b)inventory:Thidiazuron

CI# : Not available.

Chemical Name : Phenyl-N'-(1,2,3-thiadiazol-5-yl)urea

Chemical Formula : C₉H₈N₄O₂

Synonym :

1-phenyl-3-(1,2,3-thiadiazole-5-yl) urea

2: Composition and Information on Ingredients

Name	CAS#	% of weight
------	------	-------------

1-Phenyl-3-(1,2,3-thiadiazol-5-yl)urea		
--	--	--

Toxicological Data : LD50 (Oral, Rat): 5,350 mg/kg LD50 (Dermal, Rat): > 1,000 mg/kg

3: Hazards Identification

Potential Acute Health Effects : May be fatal if swallowed, inhaled or absorbed through skin. Causes severe eye irritation. Avoid breathing vapor or spray mist. Avoid contact with eyes, skin or clothing. Keep out of reach of children.

Potentials Chronic Health Effects :

Carcinogenic Effects : Not available.

Mutagenic Effects : Not available.

Teratogenic Effects : Not available.

Developmental Toxicity : Reproductive hazard.

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

4: First Aid Measures

Eye Contact : In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin Contact : In case of contact, immediately wash skin with soap and copious amounts of water.

Serious Skin Contact : Not available.

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

Serious Inhalation : Not available.

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

Serious Ingestion : Not available.

5: Fire and Explosion Data

Flammability of the Product : Not available.

Auto-Ignition Temperature : Not available.

Flash Points : Not available.

Flammable Limits : Not available.

Product of Combustion : Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

File Hazards in Presence of Various Substances : Not available.

Explosion Hazards in Presence of Various Substances : Not available.

Fire Fighting Media and Instructions :

SMALL FIRE : Dry chemical powder.

LARGE FIRE : Foam, dry extinguishing media, carbon dioxide, water spray

Special Remarks on Fire Hazards : Not available.

Special Remarks on Explosion Hazards : Not available.

6 : Accidental Release Measures

Small Spill : Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventillate area and wash spill site after material pick up is complete.

Large Spill : Not available.

7: Handling and Storage

Precautions : Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid formation of dust and aerosols.

Storage : Keep tightly closed in a dry and well-ventillated place.

8: Exposure Controls/Personal Protection

Engineering Controls : Safety shower and eye bath. Mechanical exhaust required.

Personal Protection : Respiratory : Government approved respirator. Hand: Chemical resistant gloves. Eye: Safety glasses.

Personal Protection in Case of a Large Spill : Splash goggles. Full suit. Boots. Dust respirator. Gloves.

Exposure Limits : Not available.

9: Physical and Chemical Properties

Physical State and Appearance : Solid

Odor : Not available.

Taste : Not available.

Molecular Weight : 220.25 g/mol

Color : Not available.

Boiling Point : Not available.

Melting Point : Not available.

Critical Temperature : Not available.

Specific Gravity : Not available.

Vapour Pressure : Not available.

Vapor Density : Not available.

Volatility : Not available.

Odor Threshold:Not available.

Water/Oil Dist. Coeff : Not available.

Ionicity(in Water) : Not available.

Dispersion Properties : Not available.

Solubility : Not available.

10: Stability and Reactivity Data

Stability : Stable.

Instability Temperature : Not available.

Conditions of Instability : Not available.

Incompatibility with various substances : Strong oxidizing agents.

Corrosivity : Not available.

Special Remarks on Reactivity : Not available.

Special Remarks on Corrosivity : Not available.

Polymerization : Not available.

11: Toxicological Information

Routes of Entry : Skin contact. Eye contact. Ingestion. Inhalation.

Toxicity to Animals : LD50 (Oral, Rat): 5,350 mg/kg

LD50 (Dermal,Rat): > 1,000 mg/kg

Chronic Effects on Humans :

Other Toxic Effects on Humans : Skin Contact: May cause skin irritation.

Special Remarks on Toxicity to Animals :

Special Remarks on Chronic Effects on Humans : Not available.

Special Remarks on other Toxic Effects on Humans : Headache, dizziness, nausea, central nervous system depression, narcosis.

12: Ecological Information

Ecotoxicity : LC50 (Rainbow trout): >19 mg/L/96H

EC50 (Water flea): >10 mg/L/48H

BOD5 and COD : Not available.

Product of Biodegradation : Not available.

Toxicity of the Products of Biodegradation : Not available.

Special Remarks on the Products of Biodegradation : Not available.

13: Disposal Considerations

Waste Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner

and scrubber.

14: Transport Information

DOT Classification : Not a DOT controlled material.

Identification : Not available.

Special Provisions for Transport : Not available.

15: Other Regulatory Information

Federal and State Regulations : TSCA 8(b) inventory : Thidiazuron

Other Regulations : Not available.

Other Classifications : Not available.

WHMIS(Canada) : Not available.

DSCL(EEC) : Not available.

HMIS(U.S.A) : 3

Health Hazard : 0

Reactivity : 0

Personal Protection :

National Fire Protection Association (U.S.A) :

Health : 2

Flammability : 0

Reactivity : 0

Specific hazard :

Protective Equipment : Gloves. Lab coat. Dust respirator.Splash goggles.

16: Other Information

References : Not available.

Other Special Considerations :

Created : 02/12/2010 10:28:41 AM

Last Updated : 02/12/2010 12:11:38 AM