



Maxunitech North America Inc

27 Goleta Point Drive, Corona del Mar, CA 92625

SAFETY DATA SHEET

Section 1- Product and Company Identification

Product:

Maxunitech TDZ + Diuron Cotton Defoliant

EPA Registration Number:

95009-5

Other means of identification

Thidiazuron: *N*-phenyl-*N'*-1,2,3-thidiazol-5-ylurea

Diuron: 3-(3,4-dichlorophenyl)-1,1-dimethylurea

Recommended use of the chemical and restrictions on use

Recommended Use Plant growth regulator, Herbicide

Restrictions on Use Use as recommended by the label

Company identification:

Maxunitech North America, Inc

Add: 27 Goleta Point Drive, Corona del Mar, CA 92625

Tel: 571-280-57983

Emergency phone number

National Pesticide Information Center: 1-800-858-7378 (Monday through Friday, 8:00 AM to 12 PM Pacific Standard Time)

Poison Control Center: 1-800-222-1222 (In the event of a medical emergency)

Section 2 - Hazards Identification

WARNING

Suspected of causing cancer (H351)

Very toxic to aquatic life (H400)

**Health hazards**

Carcinogenicity - Category 2

Environmental hazards

Hazardous to aquatic environment, acute - Category 1

Precautionary statement

Obtain, read, and follow all safety instructions before use. Wear protective gloves/protective clothing. Refer to Section 8 for specific PPE requirements. (P203+ P280)

Avoid release to the environment. (P273)

If exposed or concerned: Get medical advice/attention. (P318)

Collect spillage. (P391)



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Store locked up. (P405)

Dispose of contents/container in according with local regulation (P501)

Section 3 - Composition/Information on Ingredient

Thidiazuron (CAS# 51707-55-2)	10.99%
Diuron (CAS# 330-54-1)	5.50%
Inert ingredients:	83.51%

Section 4 - First Aid Measures

Skin:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20minutes. 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.

Most important symptoms and effects, acute and delayed

To date no symptoms are known.

Indication of immediate medical attention and special treatment needed, if necessary

No specific antidote.

Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Dry chemical, Carbon dioxide (CO₂), Foam, Water spray.

Specific hazards arising from the chemical:

In the event of fire the following may be released: Nitrogen oxides (NO_x), Sulphur oxides, Carbon monoxide (CO)

Special protective equipment and precautions for fire fighters:

Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

Section 6 - Accidental Release Measures

Personal precaution, protective equipment and emergency procedures:

Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Keep unauthorized people away. Use personal protective equipment.



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Environmental precautions:

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations.

Section 7 - Handling and Storage

Precautions for safe handling:

Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Conditions for safe storage:

Store product in original container only and keep closed. Store in a cool, dry place. Do not use or store near heat or open flame.

Section 8 - Exposure Controls / PPE

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Not normally required. To avoid contact with eyes, wear chemical goggles or shielded safety glasses.

Skin and body protection

Long-sleeved shirt and long pants, shoes plus socks.

Hand Protection

Chemical resistant gloves made of Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Polyvinyl Chloride (PVC) ≥ 14 mils or Viton ≥ 14 mils.

Section 9 - Physical/Chemical Properties

Odor:	non-characteristic
Appearance:	off white suspension liquid



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Boiling Point/Boiling Range:	No data available
Melting Point/Freezing Point:	No data available
Flammability (solid, gas):	No data available
Lower and upper explosion limit/flammability limit:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Density:	1.09 g/mL(20°C)
pH:	6.55 (1% (w/v) aqueous solution) (20°C)
Viscosity:	299.40 cP (mPa s), at 20 ± 0.2 °C 198.30 cP (mPa s), at 40 ± 0.2 °C
Solubility:	No data available
Partition coefficient::	No data available
Vapor Pressure:	No data available
Flash Point:	No data available
Explodability:	Non-explosive
Combustibility:	Non-combustible
Corrosivity:	Non-corrosive
Particle characteristics:	No data available

Section 10 - Stability and Reactivity

Reactivity:

None under normal use conditions.

Stability:

Stable under normal handling and storage conditions.

Possibility of hazardous reactions:

None under normal processing.

Conditions to avoid:

Extremes of temperature and direct sunlight.

Hazardous decomposition products:

The substance decomposes on heating and on burning producing toxic and corrosive fumes including carbon monoxide, sulphur oxides and nitrogen oxides.

Incompatible materials:

Oxidizing agents

Section 11 - Toxicological Information

Acute toxicity:

Oral: LD₅₀ = 5000 mg/kg (rat)

Dermal: LD₅₀ >2000 mg/kg (rat)



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Inhalation: LC₅₀ (4h) > 5.903 mg/l air (rat)

Irritant properties:

Eye: Not classified as an eye irritant (rabbit).

Skin: Not classified as an eye irritant (rabbit).

No skin sensitization (mice) per acute toxicity study.

Carcinogenicity:

“known / likely” human carcinogen (Diuron)

Teratogenic effects:

Not available.

Reproductive effects:

Not available.

Other toxicity:

May cause damage to organs through prolonged or repeated exposure.

Section 12 - Ecological Information

No data available for the formulation. Data presented below are based on the active ingredient.

Thidiazuron:

Fish

Rainbow trout (96 h LC₅₀) > 19 mg/L

Fathead minnow (NOAEC) > 32 mg/L

Thidiazuron degradate for Rainbow trout (LC₅₀): 6.7 mg/L

Daphnia

Acute (48 h EC₅₀): 5.7 mg/L

Chronic (NOAEC): < 0.1 mg/L

Aquatic Plants

Acute Marine diatom (48 h EC₅₀): 0.86 mg/L

Chronic Marine diatom (NOAEC): 0.11 mg/L

Acute Duckweed (48 h EC₅₀): > 24 mg/L

Chronic Duckweed (NOAEC): 8.6 mg/L

Birds

Acute oral Bobwhite quail (LD₅₀): > 3,160 mg/kg

Subacute Dietary Bobwhite quail (LC₅₀): > 5,215 mg/kg

Chronic Mallard Duck (NOAEC): 298 mg/kg

Bees

Acute Contact (LD₅₀): > 100 µg/bee

Diuron:

Fish

Rainbow trout (96 h LC₅₀): 14.7 mg/L

Sheepshead minnows (96 h LC₅₀): 6.7 mg/L

Fathead minnow (96 h LC₅₀): 14 mg/L



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Daphnia

Acute (48 h EC₅₀): 1.4 mg/L

Aquatic Plants

Selenastrum capricornutum (120h EC₅₀): 0.022 mg/L

Lemna gibba (7d EC₅₀): 0.0183 mg/L

Birds

Acute oral Bobwhite quail (14 d LD₅₀): 1104 mg/kg

Subacute Dietary Bobwhite quail (8d LC₅₀): 1730 mg/kg

Subacute Dietary Japanese quail (8d LC₅₀): >5000 mg/kg

Subacute Dietary Mallard ducks (8d LC₅₀): 5000 mg/kg

Subacute Dietary pheasants (8d LC₅₀): >5000 mg/kg

Bees

Acute Contact (LD₅₀): 145 mg/kg

Worms

LC50 (14 d) >400 mg/kg (based on studies with diuron metabolites).

Section 13 - Disposal Considerations

Disposal method:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Empty container:

Nonrefillable container and refillable containers. Refer to the product label for specific container disposal instructions.

Section 14 - Transport Information

DOT

Not regulated

IMDG

UN No.: 3082

Packaging Group: III

Hazard Class: 9

Marine Pollutant: Yes

Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains thidiazuron, diuron), 9, PG III, Marine Pollutant

ADR



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IATA

UN No.: 3082

Packaging Group: III

Hazard Class: 9

Marine Pollutant: Yes

Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains thidiazuron, diuron), 9, PG III, Marine Pollutant.

Section 15 - Regulatory Information

FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMAN AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed or absorbed through skin. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to algae, marine/estuarine invertebrates, and moderately toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

SARA TITLE III – SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES

Not listed

SARA TITLE III – SECTION 311/312 HAZARDOUS CATEGORIES

Immediate (acute)

SARA TITLE III – SECTION 312 THRESHOLD PLANNING QUANTITY

The threshold planning quantity (TPQ) for this product treated as a mixture is



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10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA TITLE III – SECTION 313 REPORTABLE INGREDIENTS

Diuron (CAS No. 330-54-1) (5.50%)

CERLA REPORTABLE QUANTITY (RQ)

Diuron (CAS No. 330-54-1) (5.50%): RQ 100 lbs.

CALIFORNIA PROP 65 STATUS

⚠ WARNING: This product can expose you to chemicals including diuron, which is known to the state of California to cause cancer. For more information go the www.P65Warnings.ca.gov.

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws.

Section 16 - Additional Information

MSDS Creation Date: 08/6/2019

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.