



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Formulator: Gowan Company  
P.O. Box 5569  
Yuma, Arizona 85366-5569  
(928) 783-8844

**Emergency Phone:** (928) 783-3803  
**For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC®:**

**Inside the U.S.:** (800) 424-9300  
**Outside the U.S.:** (703) 527-3887  
(888) 478-0798

**For MEDICAL Emergency:**

**Product:** **Tupersan®**  
**EPA Signal Word:** Caution  
**Active Ingredient:** Siduron (50.0%)  
**Chemical Name:** 1-(2-methylcyclohexyl)-3-phenylurea  
**Chemical Class:** Urea

**EPA Registration No.:** 10163-213  
**CAS No.:** 1982-49-6

### 2. HAZARDS IDENTIFICATION

#### Physical Properties

**Appearance:** Light gray powder  
**Odor:** Odorless

#### Symptoms of Overexposure

Tupersan may irritate eyes, nose, throat, and mucous membranes, and skin.

#### Primary Routes of Exposure

Harmful if ingested and inhaled, or if it comes into contact with skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Siduron (50.0%)	Not applicable	Not applicable	Not established	No

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.

### 4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

**Ingestion:** No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. Consult a physician for further treatment if necessary.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Give oxygen only with a physician's advice.

**Eye Contact:** Flush eyes with plenty of clear water for at least 15 minutes.

**Skin Contact:** Wash with soap and water.

**FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE (888) 478-0798**

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## 5. FIRE FIGHTING MEASURES

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**Flashpoint (test method):** Not applicable  
**Flammable Limits (% in air):** LEL – 0.048 g/L  
**Autoignition Temperature:** Not available

### Appropriate Extinguishing Media

Use water spray, water fog, water stream, CO<sub>2</sub>, dry chemical, or foam.

### Fire Fighting Guidance

Wear self-contained breathing apparatus. If area is heavily exposed to fire and if conditions permit, let fire burn its self out since water may increase the area of contamination. If water is used, dike fire control water for later disposal.

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## 6. ACCIDENTAL RELEASE MEASURES

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### In Case of Spills or Leaks

Sweep or scoop up and remove.

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## 7. HANDLING AND STORAGE

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### Precautions in storing

Do not contaminate water, food or feed by storage or disposal. Keep container closed.

### Storing

Store in a cool, dry place away from children, domestic animals, food and feed products. Immediately clean up any spills which, occur during storage.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Controls

Use with adequate ventilation

### Personal Protection

<b>Eye/Face:</b>	Safety glasses or chemical splash goggles should be worn.
<b>Skin Protection:</b>	Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.
<b>Respiratory Protection:</b>	Where there is a potential for airborne exposures in excess of applicable limits (see Section II) wear a NIOSH/ MSHA approved pesticide respirator.
<b>Applicators/Handlers:</b>	Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.
<b>Additional Protection Information:</b>	Do not get in eyes, on skin or clothing. Do not breathe dust or spray mist. 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.
<b>User Safety Recommendations:</b>	Users should 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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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Light gray powder  
**Odor:** Odorless  
**Melting Point:** 271-280°F (technical)  
**Boiling Point:** Not applicable  
**Specific Gravity/  
Density:** 15.0 lbs./ft<sup>3</sup>

**Solubility in H<sub>2</sub>O**  
**Siduron** 22.3 ppm @ 25°C (technical)

**Vapor Pressure**  
**Siduron** 4x10<sup>-9</sup> torr @ 25°C (technical)

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## 10. STABILITY AND REACTIVITY

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**Stability:** Stable under normal conditions  
**Hazardous**  
**Polymerization:** Will not occur  
**Decomposition**

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity/Irritation Studies

<b>Ingestion:</b>	Acute LD <sub>50</sub> :	> 7500 mg/kg
<b>Dermal:</b>	Slight irritant	
<b>Eye Contact:</b>	Slight irritant	
<b>Skin Contact:</b>	Slight irritant	
<b>Dermal Sensitization:</b>	Not a skin sensitizer	

**Carcinogenic Potential**  
None

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## 12. ECOLOGICAL INFORMATION

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### Summary of Effects Siduron

This product is toxic to fish. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from area treated.

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## 13. DISPOSAL CONSIDERATION

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### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. For information concerning the proper disposal of pesticide-related wastes, contact your State Environmental Department, State Department of Agriculture, or the Regional Office of the Environmental Protection Agency for your area.

### Container Disposal

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not reuse empty bag.

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## 14. TRANSPORT INFORMATION

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### DOT Classification

Not regulated

### International Maritime Organization

Not regulated

### International Civil Aviation Organization

Not regulated

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## 15. REGULATORY INFORMATION

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### SARA Title III Classification

Section 302/304:	Not applicable
Section 311/312:	Immediate (acute) health hazard
Section 313 chemical(s):	Not applicable

### Proposition 65

Not applicable

### CERCLA Reportable Quantity (RQ)

Not applicable

### RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

### TSCA Status

Exempt from TSCA

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## 16. OTHER INFORMATION

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### NFPA Hazard Ratings

Health:	1
Flammability:	0
Reactivity:	0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

**Notice:** The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

### Prepared By:

Gowan Company  
(928) 783-8844

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