



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Formulator: Gowan Company  
P.O. Box 5569  
Yuma, Arizona 85366-5569  
(800) 883-1844

**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:** Sedgehammer® Herbicide

**EPA Signal Word:** Caution

**EPA Registration No.:** 81880-1-10163

**Active Ingredient:** \*Halosulfuron methyl (75.0%)

**CAS No.:** 100784-20-1

**Chemical Name:** Methyl 3-chloro-5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-1-methylpyrazole-4-carboxylate (IUPAC)

**Chemical Class:** Sulfonylurea

### 2. Hazards Identification

#### Physical Properties

**Appearance:** Beige granules

**Odor:** Scorched vanilla odor

#### Symptoms of Acute Exposure

Not available

#### Medical Conditions Likely to be Aggravated by Exposure

Sedgehammer herbicide contains less than 1.0% sodium sulfite. In sulfite-sensitive individuals, skin reactions have been reported following dermal exposures, and respiratory reactions have been reported on ingestion of food, or on ingestion or inhalation of medications which contain related sulfiting agents (bisulfites or metabisulfites) as preservatives. Individuals with asthma may be more prone to these types of reactions.

#### Primary Routes of Exposure

Inhalation and skin contact

#### Hazardous Decomposition Products

None known

#### Unusual Fire, Explosion, and Reactivity Hazards

None known

### 3. Composition/Information On Ingredients

INGREDIENT NAME	CAS No.	OSHA – PEL	ACGIH – TLV	NTP/IARC/OSHA CARCINOGEN
Halosulfuron methyl (75.0%)	100784-20-1	None	None	No
Silica, Amorphous Precipitated (<3.0%)	112926-00-8	6 mg/m <sup>3</sup> 8-hr TWA	10 mg/m <sup>3</sup> 8-hr TWA	No
Kaolin Clay (8-13%)	1332-58-7	15 mg/m <sup>3</sup> 8-hr TWA	10 mg/m <sup>3</sup> total dust 8-hr TWA	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.

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## 4. First Aid Measures

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FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.</li><li>• Call poison control center or physician for treatment advice.</li></ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"><li>• Call poison control center or physician immediately for treatment advice.</li><li>• Remove visible particles from mouth.</li><li>• Have person rinse mouth thoroughly with water, spit out rinse water.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
Have the product container or label with you when calling a poison control center or physician, or going for treatment. <b>FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE 1-888-478-0798.</b> This product is identified as SEDGEHAMMER, EPA Reg. No. 81880-1-10163	

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## 5. Fire Fighting Measures

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### Flash Point

This material is not combustible as tested by the Tag Closed Cup Test.

### Auto Ignition Temperature

Not determined.

### Appropriate Extinguishing Media

In case of fire, use water (flood with water), dry chemical, CO<sub>2</sub>, or alcohol foam

### Special Fire Fighting Procedures

Firefighters and others that may be exposed to vapors, mists, dusts, or products of combustion should wear full protective clothing and self-contained breathing apparatus. Equipment should be thoroughly cleaned after use.

### Unusual Fire or Explosion Hazards

None known

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## 6. Accidental Release Measures

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### In Case of Spills or Leaks

Keep unnecessary people away and isolate hazard area. Wear appropriate personal protective equipment described in Section 8. Sweep up spill, scoop or vacuum and remove. Flush residual spill area with water. Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water. Refer to Section 13 for disposal information and Section 15 for reportable quantity information.

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## 7. Handling and Storage

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Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

**PESTICIDE STORAGE:** Store under cool, dry conditions (below 120°F). Do not store under moist conditions.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures, or in such other method as approved under those procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

**PLASTIC CONTAINER:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**PAPER OR PLASTIC BAG:** 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.

### **INSTRUCTIONS FOR WATER DISPERSIBLE GRANULE IN 1.3 OUNCE BOTTLE:**

Do not reuse container. Triple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration, or by burning, if allowed by state and local authorities. If burned, stay out of smoke.

**INSTRUCTIONS FOR WATER DISPERSIBLE GRANULE PREMEASURED IN WATER SOLUBLE BAG:** Completely use water soluble bags in application equipment. Then dispose of empty foil pouch and cardboard box in a sanitary landfill, or by incineration, or by burning, if allowed by state and local authorities. If burned, stay out of smoke.

**DISPOSAL AUTHORITIES:** If none of the foregoing procedures is permitted by state and local authorities, then contact your State Pesticide or Environmental control Agency, or your local Hazardous Waste Disposal office, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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## 8. Exposure Controls/Personal Protection

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### Personal Protective Equipment:

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS STATEMENTS:** When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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## Physical and Chemical Properties

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**Appearance:** Beige granules

**Odor:** Scorched vanilla

**pH:** 6.6 (1% solution)

**Density:** 41 lbs/cu ft

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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## 10. Stability and Reactivity

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**Stability:** This product should be stable for at least two years under normal conditions of warehouse storage. Store in a cool, well-ventilated place away from foodstuffs, reducing agents and acids.

**Hazardous decomposition products:** None known.

**Hazardous polymerization:** Will not occur.

**Incompatibility with other materials:** None.

**Conditions to avoid:** Store under cool, dry conditions (below 120°F). Do not store under moist conditions.

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## 11. Toxicological Information

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**Oral LD<sub>50</sub> (Rat):** 1287 mg/kg                      Slightly toxic

**Dermal LD<sub>50</sub> (Rat):** >5,000 mg/kg              Practically nontoxic

**Eye Irritation (Rabbit):**                              Moderately irritating

**Skin Irritation (Rabbit):**                              Slightly irritating

**Acute Inhalation (Rat, 4-hr):** >5.7 mg/l              Practically nontoxic

**Dermal Sensitization (Guinea Pig):** Sedgehammer is not considered a dermal sensitizer in guinea pigs.

Halosulfuron-methyl, the active herbicidal ingredient in Sedgehammer herbicide, is considered to be practically nontoxic orally or by inhalation and no more than slightly toxic dermally. It is slightly irritating to eyes and essentially nonirritating to the skin. Halosulfuron-methyl did not produce skin allergy in the guinea pig.

Kaolin Clay (containing <1% crystalline silica)

Sedgehammer herbicide contains up to 8-13% kaolin clay. Inhalation of excessive amounts of kaolin dust may produce coughing, sneezing and nasal irritation. Long-term overexposure to kaolin dust may cause respiratory difficulties, such as decreased lung capacity.

Silica, hydrated amorphous

Sedgehammer herbicide contains less than 3% silica gel (amorphous silica). Inhalation of silica dust can cause drying of mucous membranes of the eyes, nose and throat (due to absorption of moisture and oils) which may result in irritation and occasional nose bleeds. Repeated exposure to silica gel has not been reported to have significant adverse health effects in workers. However, persons with breathing problems or lung disease may be at an increased risk. Laboratory studies in animals exposed by inhalation to silica gel have shown no adverse effects.

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## 12. Ecological Information

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Ecotoxicity data shown is for the active ingredient, halosulfuron-methyl.

48-hr EC50 Daphnia magna: >107 mg/L; practically nontoxic.

96-hr LC50 Bluegill sunfish: >118 mg/L; practically nontoxic.

96-hr LC50 Rainbow trout: >131 mg/L; practically nontoxic.

5-day EC50 Algae (*Selenastrum capricornutum*): 0.0041/L; very highly toxic.

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### 13. Disposal Considerations

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Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures. Dispose of empty container in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

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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 Delayed (chronic) health hazard
Section 313 chemical(s):	Not applicable

**Proposition 65**

Not Applicable

**CERCLA Reportable Quantity (RQ)**

None

**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  
(800) 883-1844

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