



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® + Turf Herbicide

EPA Signal Word: Caution

EPA Registration No.: 81880-24-10163

Active Ingredient: Halosulfuron methyl (5.0%)

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: Off-white to light tan granule

Odor: Practically odorless

Medical Conditions Likely to be Aggravated by Exposure

CAUSES MODERATE EYE IRRITATION. Avoid contact with eyes or clothing.

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 (5.0%)	100784-20-1	None	None	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

FIRST AID

IF IN EYES

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
- Call poison control center or physician for treatment advice.

Have the product container or label with you when calling a poison control center or physician, or going for treatment.

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE 1-888-478-0798.

This product is identified as SEDGEHAMMER, EPA Reg. No. 81880-24-10163

5. Fire Fighting Measures

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, CO₂, 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

6. Accidental Release Measures

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.

7. Handling and Storage

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

PESTICIDE STORAGE: Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Store under cool, dry conditions (below 120°F). Do not store under moist conditions.

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

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

8. Exposure Controls/Personal Protection

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, or aircraft 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.

Physical and Chemical Properties

Appearance: Off-white to light tan granule

Odor: Practically odorless

pH: 4.86

Density: 0.642 g/mL

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.

10. Stability and Reactivity

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.

11. Toxicological Information

Oral LD₅₀ (Rat): >5,000 mg/kg

Dermal LD₅₀ (Rat): >5,000 mg/kg

Acute Inhalation (Rat, 4-hr): >2.05 mg/l

Eye Irritation (Rabbit): Moderately irritating

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.

12. Ecological Information

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.

13. Disposal Considerations

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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.

14. Transport Information

DOT Classification

Not Regulated

International Maritime Organization

Not Regulated

International Civil Aviation Organization

Not Regulated

15. Regulatory Information

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

16. Other Information

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

Sedgehammer® is a registered trademark of Gowan Company, LLC