

# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Produced for:	Gowan Company P.O. Box 5569 Yuma, Arizona 85366-5569		Emergency Phone: For 24-Hour Emergency		(928) 783-3803	
	(928) 783-8		Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC <sup>®</sup> :		Inside the U.S.: (800) 424-9300 Outside the U.S.: (703) 527-3887	
		For MEDICAL Emergency:		(888) 478-0798		
Product:		Yukon <sup>®</sup> Herbic	ide			
EPA Signa	l Word:	Caution		EPA Registration	No.:	81880-6-10163
Active Ingredient: Chemical Name:		*Halosulfuron methyl Methyl 3-chloro-5-(4,6-dimethoxy carboxylate (IUPAC)		CAS No.: 100784-20-1 /pyrimidin-2-ylcarbamoylsulfamoyl)-1-methylpyrazo		• .
Chemical C	Class:	Sulfonylurea	,			
Active Ingr Chemical N Chemical (	Name:	Sodium salt of c 3,6-Dichloro- <i>o-a</i> Benzoic Acid	dicamba anisic sodium (IU	CAS No.: PAC)	1982-69-7	1

# 2. Hazards Identification

## **Physical Properties**

Appearance: Beige granules

Odor: Slight odor

## Medical Conditions Likely to be Aggravated by Exposure

A very small percentage of particularly sensititive people may suffer skin or respiratory reactions.

## **Primary Routes of Exposure**

Skin contact, eye contact, inhalation.

## **Hazardous Decomposition Products**

Carbon monoxide (CO), sulphur oxides (SO<sub>x</sub>), hydrogen chloride (HCl), nitrogen oxides (NO<sub>x</sub>), ammonia (NH<sub>3</sub>) Unusual Fire, Explosion, and Reactivity Hazards

None

# 3. Composition/Information On Ingredients

INGREDIENT NAME	CAS No.	OSHA – PEL	ACGIH – TLV	NTP/IARC/OSHA CARCINOGEN
Halosulfuron-methyl (12.5%)	100784-20-1	None	None	No
Sodium salt of dicamba (55.0%)	1982-69-0	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

IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.			
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.			
	Call a poison control center or doctor for treatment advice.			
IF SWALLOWED:	Call poison control center or doctor immediately for treatment advice.			
	Remove visible particles from mouth.			
	Have person rinse mouth thoroughly with water, spit out rinse water.			
	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.			
	<ul> <li>Do not give anything by mouth to an unconscious person.</li> </ul>			
HOT LINE NUMBER				
Have the product co	ontainer or label with you when calling a poison control center or doctor, or going for treatment.			
	AL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: 1-888-478-0798.			

# 5. Fire Fighting Measures

## **Flash Point**

Not applicable.

# Appropriate Extinguishing Media

In case of fire, use water, dry chemical, carbon dioxide (CO<sub>2</sub>), or 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

# 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

#### Handling

Avoid contact with eyes, skin, or clothing. Wash hands thoroughly after handling or contact. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash contaminated clothing before re-use. Thoroughly clean equipment after use. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

#### 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.

# 8. Exposure Controls/Personal Protection

#### Personal Protective Equipment:

Eye Protection: If there is significant potential for contact, wear dust goggles.

- Skin Protection: No special requirement when used as recommended. For repeated or prolonged contact, wear chemical resistant gloves.
- **Respiratory Protection:** No special requirement when used as recommended. If airborne exposure is excessive, wear respirator. Respiratory protection programs must comply with all local, regional, and national regulations.

# 9. Physical and Chemical Properties

Appearance: Beige granules Odor: Slight pH: 6.1 @ 20°C 10 g/l Density: 0.79 g/cm<sup>3</sup>; (tap density)

**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: Stable under normal conditions of handling and storage.

Hazardous decomposition products: Carbon monoxide (CO), sulphur oxides (SO<sub>x</sub>), hydrogen chloride (HCI), nitrogen oxides (NO<sub>x</sub>), ammonia (NH<sub>3</sub>).

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

## 11. Toxicological Information

Oral LD50 (Rat, female):>2,606 mg/kg body weightDermal LD50 (Rat):>5,000 mg/kg body weightAcute Inhalation (Rat, 4-hr, dust):>2.17 mg/LEye Irritation (Rabbit):Slightly irritating.Skin Irritation (Rabbit):Slightly irritatingDermal Sensitization (Guinea Pig):Not a Sensitizer.

# 12. Ecological Information

This section is intended for use by ecotoxicologists and other environmental specialists. Data obtained on active ingredient are summarized below.

## Aquatic toxicity - fish

 Bluegill sunfish (*Lepomis macrochirus*): Acute toxicity, 96 hours, flow-through, LC<sub>50</sub>: > 118 mg/L Practically non-toxic.
 Rainbow trout (*Oncorhynchus mykiss*): Acute toxicity, 96 hours, flow-through, LC<sub>50</sub>: > 131 mg/L

# Practically non-toxic.

# Aquatic toxicity - invertebrates

Water flea (Daphnia magna):

Acute toxicity, 48 hours, flow-through,  $LC_{50}$ : > 107 mg/L Practically non-toxic.

#### Aquatic toxicity - algae/aquatic plants

#### Green algae (Selenastrum capricornutum):

Acute toxicity, 120 hours, static, EbC<sub>50</sub> (biomass): 5.3  $\mu$ g/L Very highly toxic.

## Avian toxicity

Mallard duck (Anas platyrhynchos):

Dietary toxicity, 5 days,  $LC_{50}$ : > 5,620 mg/kg diet Practically non-toxic.

Bobwhite quail (*Colinus virginianus*):

Dietary toxicity, 5 days,  $LC_{50}$ : > 5,620 mg/kg diet

Practically non-toxic.

## Arthropod toxicity

Honey bee (Apis mellifera):

Contact, 48 hours,  $LC_{50}$ : > 100 µg/bee Practically non-toxic.

## 13. Disposal Considerations

**Product 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.

**Container disposal:** 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.

# 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):	Sodium salt of dicamba (55.0%) CAS#:1982-69-0

#### **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

1	0	Least	
0	1	Slight	
0	2	Moderate	
	3	High	
	4	Severe	
	1	0 1 0 2	0 1 Slight 0 2 Moderate 3 High

**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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\*Halosulfuron-methyl is manufactured by Nissan Chemical Industries, Ltd. Product is protected by U.S. Patent No. 4,668,277