

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Formulator:	Gowan Company P.O. Box 5569 Yuma, Arizona 85366-5569 (800) 883-1844		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	
	()		For Medica	/ Emergency:	(888) 478-0798	
Product:		Torino				
EPA Sigr	al Word:	CAUTION		EPA Registration No	.: 8033-103-10163	
Active In	gredient:	Cyflufenamid (10%)	w/w)	CAS No.:	180409-60-3	
Chemica	Name:	(Z)-N-[α-(cycloprop)	ylmethoxyiming	o)-2,3-difluoro-(6-trifluoro	methyl)benzyl}]-2-phenylacetamide	
Chemica	l Class:					

2. HAZARDS IDENTIFICATION

Health hazards

Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse.

Symptoms of exposure (Acute effects)

No information

Symptoms of exposure (Long term effects)

No information

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Cyflufenamid (10%w/w)	Not listed	Not listed	N/A	N/A

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 SWALLOWED:** 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- **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 eye. Call a poison control center or doctor for treatment advice.

4. FIRST AID MEASURES - continued

IF ON SKIN OR Take off contaminated clothing. Wash skin with soap and water. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

5. FIRE FIGHTING MEASURES

Flashpoint (test method): Not flammable Flammability: Not determined

Appropriate Extinguishing Media

Water spray, carbon dioxide, dry chemical powder or polymer foam

Special protective equipment for fire-fighters

Wear appropriate protective clothing with self-contained breathing apparatus. May envolve harmful and irritant gas/fume in heating or combustion.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Sweep up and place in an appropriate container. Hold for disposal. Wash contaminated surfaces to remove any residues. Remove contaminated clothing and wash before reuse.

7. HANDLING AND STORAGE

Handling

Avoid contact with eyes, skin or clothing. Avoid breathing vapors, Avoid releasing to this product to environment. **Storage**

Store in a cool, ventilated, dry place. Store only with compatible chemicals. Avoid direct contact with oxidizing agent or organic peroxide. Do not storage in or around home. Keep container tightly closed

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Safety glasses with side shields
- Chemical resistant gloves
- Working shoes plus socks

If you want more options for chemical-resistant materials, follow the instructions for category A on an EPA chemicalresistance category selection chart.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:Viscous liquidColor:OpaqueOdor:Mildly aromaticDensity:1.04 g/ml

Boiling point:Not availableMelting point:Not applicableFlash point:Not flammabilityFlammability:Not available

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Stable under normal storage and use conditions.
Incompatibility:	Avoid excessive heat and flame. Organic peroxide, strong acids or bases
Hazardous Decomposition	
Products:	CO, NOx, HF and organic compounds on combustion. May generate harmful and irritant gas/fume in heating or combustion

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion:	Oral LD ₅₀ (rat):	>2000 mg/kg
Dermal:	Dermal LD ₅₀ (rat):	>2000 mg/kg
Inhalation:	Inhalation LC_{50} (rat):	>2.64 mg/L (4hr)
Eye Contact: Skin Contact: Skin Sensitizer:	Minimal Non-irritating Not a skin sensitizer	

Carcinogenic Potential Not listed

12. ECOLOGICAL INFORMATION

Acute Toxicity to aquatic organisms

Acute Toxicity to Fish (rainb	ow	trout); LC_{50}	(96hr)	>95.7 mg/L
Acute Toxicity to Daphnia	;	EC ₅₀ (48hr)	18.1 m	g/L
Acute Toxicity to Algae	;	ErC ₅₀ (72hr)	>14.6	mg/L

Use with care when applying in areas adjacent to any body of water . Do not apply directly to water or to areas where surface water is present or to intertidal areas below mean high water mark. Do not contaminate water used for irrigation or domestic purposes. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not contaminate water or rinsate.

13. DISPOSAL CONSIDERATION

- Burn in a chemical incinerator equipped with an afterburner and alkaline scrubber, in accordance with Federal, State or local regulation.
- Do not discharge into waterway or sewer systems unless permission has been obtained by the local authority and suitable dilution has been established.
- Contaminated empty containers must be disposed of as chemical waste. Do not reuse or refill this container
- Obey all Federal, State and local regulations for health, safety, and environmental protection in treating the waste.

14. TRANSPORT INFORMATION

DOT Classification

Not Regulated

International Maritime Organization (IMDG)

Not Regulated

International Civil Aviation Organization (IATA)

Not Regulated

15. REGULATORY INFORMATION

SARA Title III Classification

Section 302/304:	Not listed
Section 311/312:	Not listed
Section 313 chemical(s):	Not listed

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

16. OTHER INFORMATION

NFPA Hazard Ratings

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Health:	0	0	Least
Flammability:	0	1	Slight
Reactivity:	0	2	Moderate
		3	High
		4	Severe

Prepared By:

Gowan Company (800) 883-1844

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