



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Distributed by: Gowan Canada
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
(888) 478-0798

For Medical Emergency:

Product: Confirm® 240F Insecticide
EPA Signal Word: CAUTION
Active Ingredient: Tebufenozide (22.5%)
Chemical Name: benzoic acid, 3,5-dimethyl-, 1-(1,1-dimethylethyl)-2-(4-ethylbenzoyl) hydrazide.
Chemical Class: Diacylhydrazine

PCP Registration No.: 24503

CAS No.: 112410-23-8

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: May cause slight temporary eye irritation. Corneal injury is unlikely.

SKIN: Brief contact is essentially non-irritating to skin. Did not cause allergic skin reactions when tested in guinea pigs. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

INHALATION: No adverse effects are anticipated from single exposure to vapor.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Tebufenozide (22.5%)	---	---	1.3 mg/M ³ , TWA	No
Glycerine	15 mg/M ³ total,	10 mg/M ³	---	No
CAS No. 000056-81-5	5 mg/M ³ respirable			
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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 eyes 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 eyes.
- Call a poison control center or doctor for treatment advice.
- Move person to fresh air.

IF INHALED:

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

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

4. FIRST AID MEASURES - continued

- 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-478-0798, day or night, for emergency treatment information.

5. FIRE FIGHTING MEASURES

FLASH POINT: Non-combustible

METHOD USED: Not available

FLAMMABLE LIMITS:

LFL: Not applicable

UFL: Not applicable

EXTINGUISHING MEDIA: Use the following extinguishing media when fighting fires involving this material: carbon dioxide, foam, dry chemical or water spray (fog).

FIRE AND EXPLOSION HAZARDS: this product may evolve harmful and irritant gas and fume such as nitrogen oxides, carbon monoxide, isobutylene or organic compounds by being heated or on combustion. Pesticide particulates can become airborne. Dried product can burn.

FIRE-FIGHTING EQUIPMENT: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

SPECIAL PROCEDURES: Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire. Contain run-off.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Floor may be slippery; use care to avoid falling. Absorb small spills with a non-reactive material such as sand or dirt and place in a suitable container for disposal. Dike the area of large spills. If exposed to the material during cleanup, remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Do not take clothing home to be laundered.

7. HANDLING AND STORAGE

HANDLING: Do not get product in eyes or on clothing. Avoid breathing vapors or spray mist. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. For handling relative to end-use of this product, read the product label for further information concerning the use of personal protective equipment (PPE) under the Worker Protection Standard of 1993.

STORAGE: Do not store this material near food, feed or drinking water. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator.

APPLICATORS AND ALL OTHER HANDLERS: Refer to the product label for personal protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white, Liquid
Melting Point:	-9°C
Odor:	Musty
pH:	6 to 7.5
Viscosity:	300 to 600 CPS
Specific Gravity (Water = 1):	1.05 @ 77°F (25°C)
Vapor Density (Air = 1):	<1 Water
Vapor Pressure:	17 mmHg @ 68°F (20°C) Water
Boiling Point:	212°F (100°C) Water
Solubility in Water:	Dispersible
Percent Volatility:	72 to 75%
Evaporation Rate (BAc = 1):	<1 Water

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may yield the following: nitrogen oxides, carbon monoxide, carbon dioxide, isobutylene

Hazardous Polymerization: Not known to occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Dermal (rat):	>5000 mg/kg
Ingestion (rat):	>5000 mg/kg
Inhalation (aerosol, rat):	>2.7 mg/L (4-hour)
Dermal irritation (rabbit):	non irritant
Eye irritation (rabbit):	non irritant
Dermal sensitization (guinea pigs):	negative

Mutagenic Potential

Ames test: negative.
Chromosomal aberration test: negative
For Tebufenozide, in-vitro and animal genetic toxicity studies were negative.
For glycerine, in-vitro genetic toxicity studies were negative.

Reproductive Hazard Potential

Tebufenozide, in animal studies (rat), did not interfere with reproduction. For glycerine, reproductive effects seen in female animals are believed to be due to altered nutritional states resulting from extremely high doses of glycerine given in the diet. Similar effects have been seen in animals fed synthetic diets.

Carcinogenic Potential

Tebufenozide and glycerine did not cause cancer in laboratory animals (rat and mouse).

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

ECOTOXICOLOGY (based on information for tebufenozide):

Earthworm	14 Day LC ₅₀ is >1000 mg/kg
Mallard duck	LC ₅₀ is >5000 ppm
Bobwhite quail	LC ₅₀ is >5000 ppm
Bobwhite quail	LD ₅₀ is >2150 mg/kg
Daphnia magna	48 hour EC ₅₀ is 3.8 mg/L (as Tebufenozide TG)
Rainbow trout (<i>Salmo gairdneri</i>)	96 hour LC ₅₀ is 5.7 mg/L
Algae acute toxicity	72 hour ErC ₅₀ >95 mg/L

13. DISPOSAL CONSIDERATION

Pesticide and Container Disposal

Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Completely empty container into transfer or application equipment. Do not reuse container for any purpose. Triple or jet rinse the container then offer for recycling or reconditioning. If offering for reconditioning, contact the manufacturer. If offering for recycling, remove all caps, labels and booklets and take to a pesticide container depot. Recycling sites are identified on the CropLife Canada (Clean Farms) website at: www.croplife.ca

For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer or the provincial regulatory agency in case of spill, and for clean-up of spills.

14. TRANSPORT INFORMATION

TDG Classification

Not regulated

DOT Classification

Not regulated

IMDG Classification

Not regulated

IATA Classification

Not regulated

15. REGULATORY INFORMATION

WHMIS Classification

This product is registered under the *Pest Control Product Act* and has been prepared in accordance with the requirements of WHMIS.

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 0
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Prepared By:

Gowan Company
(800) 883-1844

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