



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

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

Emergency telephone number: (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

For *medical* emergency: (888) 478-0798

<b>Product:</b>	<b>Extra Strength Avadex® BW</b>	<b>PCP Registration No.:</b>	16759
<b>Signal Word:</b>	Warning	<b>CAS No.:</b>	2303-17-5
<b>Active Ingredient:</b>	Triallate (480 g/l)		
<b>Chemical Name:</b>	S-(2,3,3-trichloro-2-propenyl) bis(1-methylethyl)carbamothioate		
<b>Chemical Class:</b>	Thiocarbamate		

### 2. HAZARDS IDENTIFICATION

#### Physical Properties

**Appearance:** Amber to light brown colored liquid

#### Primary Routes of Exposure

Skin contact and inhalation

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

May cause respiratory tract and eye irritation

#### Hazardous Decomposition Products

None known

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

Combustible

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>Component</u>	<u>CAS No.</u>	<u>% by weight</u>
<b>Active Ingredient:</b>	Triallate*+	2303-17-5	46.3%
<b>Other Ingredients:</b>	emulsifier*#		<5%
	C9 Aromatics (composition variable)*	64742-95-6 or 64741-98-6	40-46%

	<u>CAS No.</u>	<u>% by weight</u>
<b>Components of C9 Aromatics in this product</b>		
1,2,4-trimethylbenzene*+ or trimethyl benzenes (mixed)	95-63-6 or 25551-13-7	<18%
Xylenes (mixed)*+	1330-20-7	<8%
Cumene*+	98-82-8	<3%

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## 4. FIRST AID MEASURES

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<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call poison control center or doctor immediately for treatment advice.</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>
<ul style="list-style-type: none"><li>• Have the product container or label with you when calling a poison control center or physician, or going for treatment.</li></ul>	

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

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## 5. FIRE FIGHTING MEASURES

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**Flashpoint (test method):** 115°F (46°C) Tag Closed Cup

**Appropriate Extinguishing Media**

In case of fire, use water spray (fog), foam, dry chemical, or CO<sub>2</sub>

**Fire Fighting Guidance**

Firefighters and other exposed to products of combustion should wear self-contained breathing apparatus.

Equipment should be thoroughly decontaminated after use.

**Unusual Fire, Explosion, and Reactivity Hazards**

None known

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## 6. ACCIDENTAL RELEASE MEASURES

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**In Case of Spills or Leaks**

Observe all protection and safety precautions when cleaning up spills - See Exposure Controls/Personal Protection, Section 8.

Liquid spills on floor or other impervious surfaces should be contained or diked and should be absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in metal drum and dispose of in accordance with instructions provided under DISPOSAL CONSIDERATIONS. Thoroughly scrub floor with a strong industrial type detergent solution and rinse with water.

Liquid spills that soak into the ground should be dug up, placed in metal drums and disposed of in accordance with instructions provided under DISPOSAL CONSIDERATIONS.

Leaking containers should be separated from those not leaking and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under DISPOSAL CONSIDERATIONS. Collect and disposed of any recovered spilled liquid.

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## 7. HANDLING AND STORAGE

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**Handling**

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or spray mist. User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Do not use, pour, spill or store near heat or flame. Use only with adequate ventilation.

Do not apply directly to water, or 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 washings.

**Storage:**

STORE ABOVE 32° F (0° C) TO KEEP FROM FREEZING.

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## 7. HANDLING AND STORAGE (cont.)

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Freezing will result in crystals, which settle to the bottom. If allowed to freeze, place in a warm room (72° F, 22° C) and gently shake the jug frequently for several days to dissolve crystals before using. For bulk containers, see the bulk container label for alternate storage information. Keep containers closed to prevent spills, evaporation and contamination.

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

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**EYE PROTECTION:** Wear chemical safety goggles to prevent eye contact during operations such as mixing or transfer or other activities when there is potential for eye contact.

**SKIN PROTECTION:** Although this material does not present a significant skin concern, skin contamination should be minimized as good industrial practice. Applicators and other handlers must wear long-sleeved shirt, long pants, shoes plus socks, and chemical resistant gloves such as barrier laminate and viton. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment. If no such instructions for washables, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

**RESPIRATORY PROTECTION:** Avoid breathing mist or vapor. This product is not likely to pose an airborne exposure concern when handled and used in accordance with label instructions.

**VENTILATION:** Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation at sources of air contamination such as open process equipment is preferred.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	amber to brown colored liquid
<b>Boiling Point:</b>	320° F (160°C)
<b>Solubility:</b>	forms an emulsion
<b>Specific Gravity:</b>	1.03 at 25/15.6° C
<b>Vapor Pressure:</b>	18 mmHg at 100° F (37.8° C)

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 specifications for the product.

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## 10. STABILITY AND REACTIVITY

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<b>Stability:</b>	Stable for at least four years under normal conditions of warehouse storage.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Decomposition Products:</b>	None known
<b>Hazardous Mixtures:</b>	None known
<b>Conditions To Avoid:</b>	None known

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## 11. TOXICOLOGICAL INFORMATION

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Oral LD50 (Rat) -	2193 mg/kg, Slightly Toxic
Dermal LD50 (Rabbit) -	>5000 mg/kg, Practically Nontoxic
Inhalation LC50 (Rat) -	>5.2 mg/L Practically Nontoxic
Eye Irritation (Rabbit) -	Moderately Irritating
Skin Irritation (Rabbit, 24-hr) -	Slightly Irritating

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## 12. ECOLOGICAL INFORMATION

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The results of single exposure (acute) environmental toxicity studies indicate that Extra Strength Avadex BW herbicide is moderately toxic to two species of fish and practically nontoxic to quail.

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## 13. DISPOSAL CONSIDERATION

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**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, provincial or municipal regulations. Keep out of drains, sewers, ditches and waterways.

**CONTAINER DISPOSAL:** Emptied container retains vapour and product residue. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Completely empty container into transfer or application equipment. Do not reuse container. 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](http://www.croplife.ca)

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## 14. TRANSPORT INFORMATION

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### TDG Classification

Not regulated

### International Maritime Organization

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III, MARINE POLLUTANT

### International Civil Aviation Organization

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III

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## 15. REGULATORY INFORMATION

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### WHMIS Classification

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

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## 16. OTHER INFORMATION

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### NFPA Hazard Ratings

**Health:** 1  
**Flammability:** 2  
**Reactivity:** 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

### Prepared By:

Gowan Company  
(800) 883-1844

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