





# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	WHMIS Class D-2B: Material causing other toxic effects (TOXIC). WHMIS Class B-5: Flammable aerosol.	HCS Class: Flammable aerosol.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>Wasp &amp; Hornet Insecticide</b>	Code	034
Synonym	Wasp & Hornet Insecticide	CAS #	Mixture.
Chemical Family	N/A	Validation Date	5/6/2003
Chemical Formula	Not applicable.	Print Date	3/27/2004
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	In Case of Emergency	Chemtrec (800) 424-9300
TSCA	TSCA Inventory: All components listed or are exempt from listing.		
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS		
		Protective Clothing 	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
1) Petroleum Distillates	69742-89-8	0-5	TWA: 100 (ppm) TWA: 300 (ppm) from OSHA (PEL) [United States]	Not available.
2) Piperonyl Butoxide	51-03-6	0-5	Not available.	Not available.
3) Permethrin	52645-53-1	0.25	Not available.	Not available.
4) Tetramethrin and Related Compounds	7696-12-0	0.1	Not available.	Not available.

## Section 3. Hazards Identification

Potential Acute Health Effects	Harmful if inhaled. Harmful if swallowed. Irritant.
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

## Section 4. First Aid Measures

Eye Contact	Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice.
Skin Contact	This product may irritate eyes and skin upon contact. Wash contaminated skin with soap and water.
Inhalation	Move person to fresh air. 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.

<b>Ingestion</b>	Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person
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### Section 5. Fire Fighting Measures

<b>Products of Combustion</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Use DRY chemicals, CO2, or foam.
<b>Special Remarks on Fire Hazards</b>	Water may be ineffective.
<b>Special Remarks on Explosion Hazards</b>	Heated cans may burst.


### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Absorb with an inert material and place in an appropriate waste disposal container.
<b>Large Spill and Leak</b>	Eliminate all sources of ignition. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Section 7. Handling and Storage

<b>Precautions</b>	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. In case of insufficient ventilation, wear suitable respiratory equipment. Keep container tightly closed and in a well-ventilated place
<b>Incompatibility</b>	oxidizing materials
<b>Storage</b>	Compressed gases should be stored in a separate safety storage cabinet or room. Keep out of reach of children. For Institutional and Commercial Use

### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels.
<b>Personal Protection</b>	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	Lab coat.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves (impervious).
<b>Protective Clothing (Pictograms)</b>	
<b>Exposure Limits</b>	<b>Petroleum Distillates</b> TWA: 100 (ppm) TWA: 300 (ppm) from OSHA (PEL)  Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

Physical State and Appearance	Gas.	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
pH	N/A	Color	Off-white.
Boiling/Condensation Point	N/A		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.81 (Water = 1)		
Vapor Pressure	4395.401 mm of Hg (@ 20°C)		
Vapor Density	>1 (Air = 1)		
Volatility	Not available.		
VOC	Not available.		
Evaporation Rate	>1		
Dispersion Properties			
Solubility	Insoluble		
The Product is:	Flammable.		
Auto-ignition Temperature			
Flash Points	CLOSED CUP: 32.222°C (90°F).		
Flammable Limits	LOWER: 1% UPPER: 12.7%		
Fire Hazards in Presence of Various Substances	FLAMMABLE.		
Explosion Hazards in Presence of Various Substances	Explosive in presence of heat.		

**Section 10. Stability and Reactivity Data**

Stability	The product is stable.
Incompatibility with Various Substances	oxidizing materials
Hazardous Decomposition Products	Not available.

### Section 11. Toxicological Information

Routes of Entry	Not available.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Acute Effects on Humans	<p><i>Eyes</i> Irritant. Inflammation of the eye is characterized by redness, watering, and itching. May cause corneal opacity.</p> <p><i>Skin</i> Irritant.</p> <p><i>Inhalation</i> Irritant. May cause headache, dizziness.</p> <p><i>Ingestion</i> May cause gastrointestinal discomfort. May cause headache, dizziness, nausea, vomiting and diarrhea. Aspiration hazard if swallowed- can enter lungs and cause damage.</p>
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.



### Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Will Not Occur
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	Not available.

### Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.

### Section 14. Transport Information

DOT (U.S.A) (Pictograms)		
TDG Classification	Not a TDG controlled material.	
PIN UN, Proper Shipping Name, PG	Not applicable.	
Maritime Transportation	Not available.	

**Section 15. Other Regulatory Information and Pictograms**

<b>WHMIS (Classification)</b>		WHMIS Class D-2B: Material causing other toxic effects (TOXIC). WHMIS Class B-5: Flammable aerosol.		<div><div></div><div></div></div>							
<b>Regulatory Lists</b>		No products were found.									
<b>Other Regulations</b>		OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).									
<b>Other Classifications</b>	<b>HCS (U.S.A.)</b>	HCS Class: Flammable aerosol.									
	<b>USA Regulatory Lists</b>	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Piperonyl Butoxide; Permethrin SARA 313 toxic chemical notification and release reporting: Piperonyl Butoxide									
	<b>DSD (EEC)</b>	This product is not classified according to the EU regulations.									
	<b>International Regulations Lists</b>	No products were found.									
<b>Hazardous Material Information System (U.S.A.)</b>		<table><tr><td>Health</td><td>2</td></tr><tr><td>Flammability</td><td>3</td></tr><tr><td>Physical Hazard</td><td>0</td></tr></table>	Health	2	Flammability	3	Physical Hazard	0	<b>National Fire Protection Association (U.S.A.)</b>		<div><div><div><div>2</div><div>3</div><div>0</div></div><div><div>Health</div><div>Flammability</div><div>Instability</div><div>Specific Hazard</div></div></div></div>
Health	2										
Flammability	3										
Physical Hazard	0										
The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.											

**Section 16. Other Information**

Validated by CRushton on 5/6/2003.

Verified by CRushton.

Printed 3/27/2004.

**Information Contact**    **Betco Corporation**  
1001 Brown Avenue  
Toledo, Ohio 43607

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*