



Material Safety Data Sheet

WHMIS (Pictograms)

WHMIS (Classification)

HCS

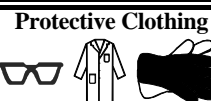


WHMIS Class D-2B: Material causing other toxic effects (TOXIC).
WHMIS Class B-5: Flammable aerosol.

HCS Class: Flammable aerosol.

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Wasp & Hornet Insecticide	Code	034
Synonym	Wasp & Hornet Insecticide	CAS #	Mixture.
Chemical Family	N/A	Validation Date	12/19/2002
Chemical Formula	Not applicable.	Print Date	12/19/2002
Manufacturer	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	DSL : All components listed unless noted elsewhere on this MSDS		



Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
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	This product is an eye irritant. In case of contact with eyes, rinse immediately with plenty of water.
Skin Contact	This product may irritate eyes and skin upon contact. Wash contaminated skin with soap and water.
Inhalation	May cause weakness, slight narcotic or anesthetic effects. Evacuate the victim to a safe area as soon as possible. Seek medical attention.
Ingestion	Do not induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

Section 5. Fire Fighting Measures

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

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill and Leak	Eliminate all sources of ignition. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Personal Protection in Case of a Large Spill	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

Precautions	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.
Incompatibility	oxidizing materials
Storage	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

Engineering Controls Good general ventilation should be sufficient to control airborne levels.

Personal Protection

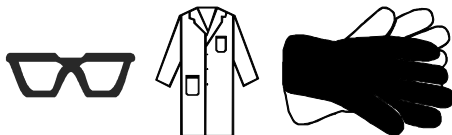
Eyes Safety glasses.

Body Lab coat.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Gloves (impervious).

Protective Clothing (Pictograms)



Exposure Limits **Petroleum Distillates**
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		
Odor Threshold	Not available.		
LogK_{ow}	Not available.		
Ionicity (in Water)	Not available.		
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

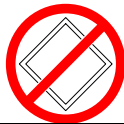
Ecotoxicity	Not available.
BOD5 and COD	Will Not Occur
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation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

Special Provisions for Transport

Not available.

Section 15. Other Regulatory Information and Pictograms

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



Regulatory Lists No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

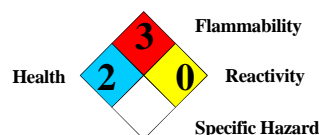
Other Classifications

HCS (U.S.A.)	HCS Class: Flammable aerosol.
USA Regulatory Lists	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Piperonyl Butoxide; Permethrin SARA 313 toxic chemical notification and release reporting: Piperonyl Butoxide
DSD (EEC)	This product is not classified according to the EU regulations.
International Regulations Lists	No products were found.

Hazardous Material Information System (U.S.A.)

Health	2
Flammability	3
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)



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Section 16. Other Information

Validated by CRushton on 12/19/2002.

Verified by CRushton.

Printed 12/19/2002.

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.

Validated on 12/19/2002.

Wasp & Hornet Insecticide

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