



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.

HCS

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	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.	Protective Clothing	
DSL/ NDSL	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	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.

Ingestion

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

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	Use DRY chemicals, CO ₂ , 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			
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	
<i>Eyes</i>	Irritant. Inflammation of the eye is characterized by redness, watering, and itching. May cause corneal opacity.
<i>Skin</i>	Irritant.
<i>Inhalation</i>	Irritant. May cause headache, dizziness.
<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.
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	
Maritime Transportation	Not applicable.

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.

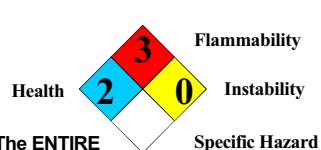
International Regulations Lists

No products were found.

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



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



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
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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 5/6/2003.

Wasp & Hornet Insecticide

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