



Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



WHMIS (Pictograms)

WHMIS Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). WHMIS Class D-2: Material causing other toxic effects.

WHMIS (Classification)

HCS Class: Irritating substance. HCS Class: Target organ effects. HCS Class: Flammable aerosol.

HCS

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Residual Insecticide		Code	3601
Synonym	Insecticide		CAS #	Mixture.
Chemical Family	Pesticide.		Validation Date	3/2/2007
Chemical Formula	Not applicable.		Print Date	3/24/2007
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (800) 333-2156		In Case of <u>Emergency</u>	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
Petroleum Distillates	64742-47-8	80 - 90	TWA: 100 ppm OSHA (United States). TWA: 300 ppm OSHA (United States). TWA: 1000 ppm Simple asphyxiant. OSHA (United States). TWA: 800 ppm Not available.	Not available.
Propane	74-98-6	10 - 15		Not available.
Butane	106-97-8	5 - 10		Not available.
Esfenvalerate	66230-04-4	0.1		Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	Irritating to mouth, throat and stomach. Over exposure by inhalation May cause headache, dizziness and nausea.
Potential Chronic Health Effects	Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. May aggravate existing respiratory conditions. May aggravate existing skin conditions. Repeated or prolonged exposure to the substance can produce nervous system damage. Asphyxiant Severe over-exposure can result in death.
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	Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
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. Do not give any fluid to the person. 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 , water spray or foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	Container explosion may occur under fire conditions or when heated.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill and Leak	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

Section 7. Handling and Storage

Precautions	Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
Incompatibility	oxidizing agents reducing agents
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 54.444°C (130°F).Dropping of containers may cause bursting

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	<p>Eyes Safety glasses.</p> <p>Body Long Sleeves and pants to avoid skin contact.</p> <p>Respiratory Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.</p> <p>Hands Gloves.</p>
Protective Clothing (Pictograms)	
Exposure Limits	See Section 2 For Applicable Exposure Limits

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
pH	Not available.	Color	Clear.
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.7396 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
VOC	Not available.		
Evaporation Rate	<1 compared to Butyl acetate.		
Dispersion Properties	Not available.		
Solubility	Very slightly soluble in cold water, hot water.		
The Product is:	FLAMMABLE.		
Auto-ignition Temperature	Not available.		
Flash Points	Closed cup: 70.556°C (159°F).		
Flammable Limits	Lower: 1.8% Upper: 9.5%		
Fire Hazards in Presence of Various Substances	FLAMMABLE.		

**Explosion Hazards in
Presence of Various
Substances**

Not available.

Section 10. Stability and Reactivity Data

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

Section 11. Toxicological Information

Routes of Entry	Not available.
Toxicity to Animals	Acute oral toxicity (LD50): >2000 mg/kg [Rat]. Acute dermal toxicity (LD50): <2000 mg/kg [Rabbit]. Acute toxicity of the gas (LC50): 658 mg/m ³ 4 hour(s) [Rat]. (Butane).
Acute Effects on Humans	
<i>Eyes</i>	Not available.
<i>Skin</i>	Irritation of the product in case of skin contact: Not available. Sensitization of the product: Not available.
<i>Inhalation</i>	May be fatal if inhaled.
<i>Ingestion</i>	Not available.
Chronic Effects on Humans	Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. May aggravate existing respiratory conditions. May aggravate existing skin conditions. Repeated or prolonged exposure to the substance can produce nervous system damage. Asphyxiant Severe over-exposure can result in death.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.

Section 12. Ecological Information

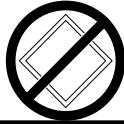
Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	Not available.

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 - TDG Class 3.1: Flammable liquid with a flash point lower than -18°C (0°F).



PIN UN, Proper Shipping Not applicable.
Name, PG

Maritime Transportation Not available.

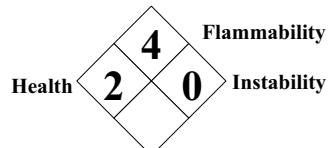
Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification)	WHMIS Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). WHMIS Class D-2: Material causing other toxic effects.	
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.) USA Regulatory Lists	HCS Class: Irritating substance. HCS Class: Target organ effects. HCS Class: Flammable aerosol. No products were found.
	DSD (EEC)	R20/21- Harmful by inhalation and in contact with skin.
	International Regulations Lists	No products were found.

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

Health	*	2	National Fire
Flammability		4	Protection
Physical Hazard		0	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 3/2/2007.

Verified by CRushton.

Printed 3/24/2007.

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 3/2/2007.

Residual Insecticide

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