



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	Class D-2B: Material causing other toxic effects (TOXIC).	Combustible liquid
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>Flying Insecticide</b>	Code	3602
Synonym	Not available.	CAS #	Mixture.
Chemical Family	Pesticide.	Validation Date	12/5/2005
Chemical Formula	Not applicable.	Print Date	12/5/2005
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (800) 333-2156	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		
		<b>Protective Clothing</b> 	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Butane	106-97-8	20 - 30	<b>OSHA (United States).</b> TWA: 800 ppm	Not available.
Propane	74-98-6	20 - 30	<b>OSHA (United States).</b> TWA: 1000 ppm Simple asphyxiant.	Not available.
Petroleum Distillates	64742-47-8	1 - 5	TWA: 100 ppm <b>OSHA (United States).</b>	Not available.
Isoparaffinic Hydrocarbon Mixture	64742-48-9	1 - 5	TWA: 300 ppm Not available.	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. This product is an eye irritant.
Potential Chronic Health Effects	May aggravate existing skin conditions. May aggravate existing respiratory conditions.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

#### **Section 4. First Aid Measures**

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
<b>Inhalation</b>	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. 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**

<b>Products of Combustion</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Use DRY chemicals, CO <sub>2</sub> , water spray or foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Combustible when exposed to heat or flame.
<b>Special Remarks on Explosion Hazards</b>	No additional remark.

#### **Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
<b>Large Spill and Leak</b>	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.
<b>Personal Protection in Case of a Large Spill</b>	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**

<b>Precautions</b>	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. Keep away from incompatibles such as oxidizing agents.
<b>Incompatibility</b>	oxidizing agents
<b>Storage</b>	Store in a segregated and approved area. 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 130°C (266°F).

### 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**

*Eyes* Safety glasses.

*Body* Lab coat.

*Respiratory* A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.

*Hands* Gloves.

**Protective Clothing (Pictograms)**



**Exposure Limits** See Section 2 For Applicable Exposure Limits

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Pleasant.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	6 to 8 [Neutral.]	<b>Color</b>	Clear.
<b>Boiling/Condensation Point</b>	Not available.		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	0.79 (Water = 1)		
<b>Vapor Pressure</b>	Not available.		
<b>Vapor Density</b>	Not available.		
<b>Volatility</b>	Not available.		
<b>VOC</b>	Not available.		
<b>Evaporation Rate</b>	<1 compared to Butyl acetate.		
<b>Dispersion Properties</b>	See solubility in water.		
<b>Solubility</b>	Partially soluble in cold water, hot water.		
<b>The Product is:</b>	COMBUSTIBLE.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	Closed cup: >48.889°C (120°F).		
<b>Flammable Limits</b>	Lower: 1.9% Upper: 9.5%		

<b>Fire Hazards in Presence of Various Substances</b>	Not available.
-------------------------------------------------------	----------------

<b>Explosion Hazards in Presence of Various Substances</b>	Not available.
------------------------------------------------------------	----------------

### **Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
------------------	------------------------

<b>Incompatibility with Various Substances</b>	oxidizing agents
------------------------------------------------	------------------

<b>Hazardous Decomposition Products</b>	Not available.
-----------------------------------------	----------------

### **Section 11. Toxicological Information**

<b>Routes of Entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
------------------------	-----------------------------------------------------

<b>Toxicity to Animals</b>	Acute toxicity of the gas (LC50): 658 mg/m <sup>3</sup> 4 hour(s) [Rat]. (Butane ).
----------------------------	-------------------------------------------------------------------------------------

#### **Acute Effects on Humans**

<i>Eyes</i>	Irritating to eyes.
-------------	---------------------

<i>Skin</i>	Irritating to skin.
-------------	---------------------

<i>Inhalation</i>	Harmful by inhalation.
-------------------	------------------------

<i>Ingestion</i>	Aspiration hazard if swallowed- can enter lungs and cause damage.
------------------	-------------------------------------------------------------------

<b>Chronic Effects on Humans</b>	May aggravate existing skin conditions. May aggravate existing respiratory conditions.
----------------------------------	----------------------------------------------------------------------------------------

<b>Special Remarks on Toxicity to Animals</b>	Not available.
-----------------------------------------------	----------------

<b>Special Remarks on Chronic Effects on Humans</b>	Not available.
-----------------------------------------------------	----------------

### **Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
--------------------	----------------

<b>BOD5 and COD</b>	Not available.
---------------------	----------------

<b>Products of Biodegradation</b>	Not available.
-----------------------------------	----------------

<b>Toxicity of the Products of Biodegradation</b>	Not available.
---------------------------------------------------	----------------

<b>Special Remarks on the Products of Biodegradation</b>	Not available.
----------------------------------------------------------	----------------

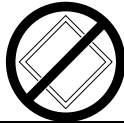
### **Section 13. Disposal Considerations**

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
--------------------------	----------------------------------------------------------------------------------------------------------

<b>Waste Stream</b>	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) Class D-2B: Material causing other toxic effects (TOXIC).



Regulatory Lists No products were found.

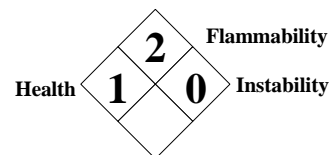
Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications	HCS (U.S.A.)	USA Regulatory Lists	DSD (EEC)	International Regulations Lists
	Combustible liquid	No products were found.	R10- Flammable. R23- Toxic by inhalation.	No products were found.

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

Health	1
Flammability	2
Physical Hazard	0

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.

Specific Hazard

## Section 16. Other Information

Validated by CRushton on 12/5/2005.

Verified by CRushton.

Printed 12/5/2005.

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 12/5/2005.

***Flying Insecticide***

**Page: 6/6**

***Continued on Next Page***