




# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 <b>WHMIS (Pictograms)</b>	<b>WHMIS CLASS B-5: Flammable aerosol. WHMIS CLASS D-2E:</b> <b>Material causing other toxic effects (TOXIC).</b>  <b>WHMIS (Classification)</b>	<b>HCS CLASS: Irritating substance.</b>  <b>HCS</b>
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## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b>	<b>Lubricant/Penetrant</b>	<b>Code</b>	040
<b>Synonym</b>	Lubricant, Penetrant, Demoisurant, Rust Preventative	<b>CAS #</b>	Not applicable.
<b>Chemical Family</b>	Not available.	<b>Validation Date</b>	3/10/2006
<b>Chemical Formula</b>	Not applicable.	<b>Print Date</b>	10/13/2006
<b>Manufacturer/ Supplier</b>	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	<b>In Case of Emergency</b>	Chemtrec (800) 424-9300
<b>TSCA</b>	TSCA Inventory: All components listed or are exempt from listing.		
<b>DSL/ NDSL</b>	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>
Lubricating Oil 2-Butoxyethanol	64742-53-6 111-76-2	<25 <4	Not available. TWA: 25 (ppm) TWA: 50 (ppm) from OSHA (PEL)	Not available. ORAL (LD50): Acute: 1746 mg/kg [Rat]. GAS (LC50): Acute: 926 ppm 4 hour(s) [Mouse].
Carbon Dioxide	124-38-9	<4	TWA: 5000 TWA: 5000 (ppm) from OSHA (PEL)	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	This product is an eye irritant. Irritating to the mucous membranes of the nose, throat and lungs.
<b>Potential Chronic Health Effects</b>	Repeated skin exposure can produce local skin destruction, or dermatitis.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

## Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	Get to fresh air. Give oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Seek medical attention.

<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
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### Section 5. Fire Fighting Measures

<b>Products of Combustion</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Foam, dry chemical, CO2.
<b>Special Remarks on Fire Hazards</b>	N/A
<b>Special Remarks on Explosion Hazards</b>	Heated cans may burst.

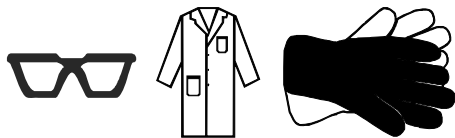
### Section 6. Accidental Release Measures

<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>	Absorb with DRY earth, sand or other non-combustible material.
<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>	After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes. Avoid breathing vapors or spray mists. When using do not eat, drink or smoke.
<b>Incompatibility</b>	Strong oxidizers, water.
<b>Storage</b>	Flammable materials 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>	No special protective clothing is required.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves.
<b>Protective Clothing (Pictograms)</b>	
<b>Exposure Limits</b>	<p><b>2-Butoxyethanol</b>  TWA: 25 (ppm)  TWA: 50 (ppm) from OSHA (PEL)</p> <p><b>Carbon Dioxide</b>  TWA: 5000  TWA: 5000 (ppm) from OSHA (PEL)</p> <p>Consult local authorities for acceptable exposure limits.</p>

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Characteristic.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	Not available.	<b>Color</b>	White.
<b>Boiling/Condensation Point</b>	N/A		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	Not available.		
<b>Vapor Pressure</b>	85 psig @ 68°F		
<b>Vapor Density</b>	>1 (Air = 1)		
<b>Volatility</b>	95		
<b>VOC</b>	Not available.		
<b>Evaporation Rate</b>	<1		
<b>Dispersion Properties</b>	Not available.		
<b>Solubility</b>	Not available.		
<b>The Product is:</b>	May be combustible at high temperature.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	Not available.		
<b>Flammable Limits</b>	Not available.		
<b>Fire Hazards in Presence of Various Substances</b>	No specific information is available in our database regarding the flammability of this product in presence of various materials.		
<b>Explosion Hazards in Presence of Various Substances</b>	Heated Cans May burst		

### Section 10. Stability and Reactivity Data

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	Strong oxidizers, water.
<b>Hazardous Decomposition Products</b>	Will not occur.

### Section 11. Toxicological Information

Routes of Entry	NONE
Toxicity to Animals	<b>WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.</b> Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol). Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) [Mouse]. (2-Butoxyethanol).
Acute Effects on Humans	<i>Eyes</i> Inflammation of the eye is characterized by redness, watering, and itching. Eye contact can result in corneal damage . <i>Skin</i> Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. <i>Inhalation</i> Irritating to the respiratory tract. May cause slight anesthetic or narcotic effect. Excessive exposure may cause drowsiness, dizziness, and loss of coordination. <i>Ingestion</i> Irritating to the gastrointestinal tract. Can cause nausea, vomiting, and diarrhea. May be rapidly absorbed through the lungs if aspirated and result in injury to other body systems.
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.

### Section 12. Ecological Information

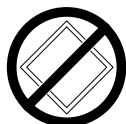
Ecotoxicity	Not Available
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	No additional remark.

### 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 controlled under TDG (Canada).



PIN UN, Proper Shipping Name, PG Not applicable.

Maritime Transportation Not available.

Special Provisions for Transport Not applicable.

### Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) WHMIS CLASS B-5: Flammable aerosol. WHMIS 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.) HCS CLASS: Irritating substance.

USA Regulatory Lists

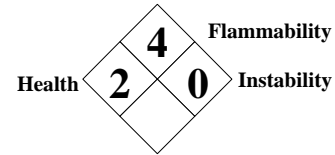
DSD (EEC)

International Regulations Lists No products were found.

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

Health	2
Flammability	4
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.

### Section 16. Other Information

Validated by CRushton on 3/10/2006.

Verified by CRushton.

Printed 10/13/2006.

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 3/10/2006.

Lubricant/Penetrant

Page: 5/5

Continued on Next Page