



# 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).	HCS CLASS: Irritating substance.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>Stainless Steel Cleaner/Polish</b>	Code	065
Synonym	Stainless Steel Cleaner/Polish	CAS #	Not applicable.
Chemical Family	Not available.	Validation Date	8/1/2005
Chemical Formula	Not applicable.	Print Date	8/1/2005
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (800) 666-2156	In Case of Emergency	(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>
White Mineral Oil	8042-47-5	<20	Not available.	Not available.
Liquified Petroleum Gas	68476-85-7	<12	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.
Citrus Terpenes	5989-27-5	<6	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].

## Section 3. Hazards Identification

Potential Acute Health Effects	This product is an eye irritant. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

#### Section 4. First Aid Measures

Eye Contact	Flush with large quantities of water. Seek medical attention if irritation persists.
Skin Contact	Seek medical attention if irritation occurs.
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.
Ingestion	Seek medical attention if symptoms persist.

#### Section 5. Fire Fighting Measures

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


#### Section 6. Accidental Release Measures

Small Spill and Leak	N/A
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
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	Avoid contact with skin and eyes. Keep away from heat.
Incompatibility	Not available.
Storage	Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. 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	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	No special protective clothing is required.
<i>Respiratory</i>	A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves.
Protective Clothing (Pictograms)	

**Exposure Limits****Liquified Petroleum Gas**

TWA: 1000 (ppm)

TWA: 1000 (ppm) from OSHA (PEL)

**Ammonium Hydroxide**

TWA: 50 (ppm)

TWA: 50 (ppm) from OSHA (PEL)

STEL: 35 (ppm)

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Liquid. (Spray Mist)	<b>Odor</b>	Characteristic.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	9.5 to 10.5 [Basic.]	<b>Color</b>	Clear
<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>	50 psig @ 68°F		
<b>Vapor Density</b>	>1 (Air = 1)		
<b>Volatility</b>	90		
<b>VOC</b>	311.55 (g/l).		
<b>Evaporation Rate</b>	<1		
<b>Dispersion Properties</b>	Not available.		
<b>Solubility</b>	Not available.		
<b>The Product is:</b>	Non-flammable.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	NO FLAME OR FLASHBACK PER CPSC FLAME PROJECTION TEST.		
<b>Flammable Limits</b>	LOWER: 1.7% UPPER: 9.5%		
<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

Stability The product is stable.

Incompatibility with Various Substances Not available.

Hazardous Decomposition Products Will not occur.

### Section 11. Toxicological Information

Routes of Entry Skin, Eyes, Inhalation.

Toxicity to Animals LD50: Not available.  
LC50: Not available.

#### Acute Effects on Humans

*Eyes* Eye irritant. May cause redness and swelling of the conjunctiva.

*Skin* Defatting to skin on repeated contact.

*Inhalation* Irritant.

*Ingestion* May be irritating to the gastrointestinal system. Vomiting and diarrhea expected with large doses.

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.

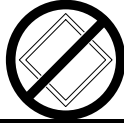
### Section 13. Disposal Considerations

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 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 This product contains the following components known to the state of California to cause cancer or reproductive harm: NONE

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Liquified Petroleum Gas: Fire hazard; Citrus Terpenes: Fire hazard, Immediate (Acute) Health Hazard

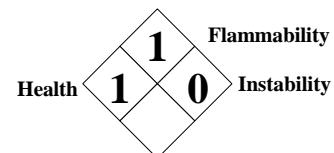
DSD (EEC) This product is not classified according to the EU regulations.

International Regulations Lists No products were found.

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

Health	1
Flammability	1
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 8/1/2005.

Verified by CRushton.

Printed 8/1/2005.

**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 8/1/2005.

**Stainless Steel Cleaner/Polish**

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