



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	WHMIS CLASS D-2: Material causing other toxic effects.	HCS Class: Irritating substance.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b>	<b>Push</b>	<b>Code</b>	<b>133</b>
<b>Synonym</b>	Liquid Bacteria / Digester/Spotter	<b>CAS #</b>	Not applicable.
<b>Chemical Family</b>	Not available.	<b>Validation Date</b>	11/22/2006
<b>Chemical Formula</b>	Not applicable.	<b>Print Date</b>	11/22/2006
<b>Manufacturer/ Supplier</b>	Betco Corporation 1001 Brown Avenue Toledo, Oh 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		
		<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>
Live Bacteria Dispersion	N/A	5 - 10	Not available.	Not available.
Alcohol Alkoxylate	N/A	1 - 5	Not available.	Not available.
Isopropyl Alcohol	67-63-0	0 - 5	<b>OSHA (United States).</b> TWA: 400 ppm	ORAL (LD50): Acute: 16971 mg/kg [Rat].

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	This product is an eye irritant. EYE CONTACT MAY RESULT IN INFECTION.
<b>Potential Chronic Health Effects</b>	There is no known effect from chronic exposure to this product.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

## Section 4. First Aid Measures

<b>Eye Contact</b>	May Infect Eyes. Check for and remove any contact lenses. DO NOT use an eye ointment. Seek medical attention.
<b>Skin Contact</b>	Avoid contact with skin and eyes. Irritant. May infect open wounds. Rinse with plenty of running water. Seek medical attention.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
<b>Ingestion</b>	May be irritating to gastrointestinal system, mouth, throat, and esophagus. Vomiting and diarrhea expected with large doses. Have conscious person drink several glasses of water or milk. Seek medical attention.

### Section 5. Fire Fighting Measures

**Products of Combustion** Not available.

**Fire Fighting Media and Instructions** DO NOT use water jet. Use DRY chemicals, CO2, water spray or foam.

**Special Remarks on Fire Hazards** No additional remark.

**Special Remarks on Explosion Hazards** No additional remark.

### Section 6. Accidental Release Measures

**Small Spill and Leak** Clean the spill area with running water.

**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** DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

**Incompatibility** Do not use in the presence of disinfectants or bleach.

**Storage** Keep out of reach of children. Keep container tightly closed. Not for use or storage in or around the home.

### Section 8. Exposure Controls/Personal Protection

**Engineering Controls** Good general ventilation should be sufficient to control airborne levels.

#### Personal Protection

*Eyes* Splash goggles.

*Body* Long Pants and Long Sleeves to avoid skin contact.

*Respiratory* Wear appropriate respirator when ventilation is inadequate.

*Hands* Gloves.

#### Protective Clothing (Pictograms)



**Exposure Limits** **Isopropyl Alcohol**  
TWA: 400 (ppm)  
TWA: 400 (ppm) from OSHA (PEL)  
STEL: 500 (ppm)

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

**Physical State and Appearance** Liquid.

**Odor** Pleasant.

**Molecular Weight** Not applicable.

**Taste** Not available.

**pH** 7 to 8 [Basic.]

**Color** White.

**Boiling/Condensation Point** 100°C (212°F)

**Melting/Freezing Point** Not available.

<b>Critical Temperature</b>	Not available.
<b>Instability Temperature</b>	Not available.
<b>Specific Gravity</b>	1 (Water = 1)
<b>Vapor Pressure</b>	20 mm of Hg (@ 20°C)
<b>Vapor Density</b>	>1 (Air = 1)
<b>Volatility</b>	Not available.
<b>VOC</b>	2.5% By Weight
<b>Evaporation Rate</b>	<1 compared to Water
<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>	CLOSED CUP: >98.889°C (210°F).
<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>	Drums Heated By Fire Can explode

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

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	Do not use in the presence of disinfectants or bleach.
<b>Hazardous Decomposition Products</b>	Not available.

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

<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 4610 mg/kg [Rat]. (Nonionic Surfactant).
<b>Acute Effects on Humans</b>	<p><i>Eyes</i> Hazardous in case of eye contact (irritant). This product may infect eyes.</p> <p><i>Skin</i> Slightly hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May infect open wounds.</p> <p><i>Inhalation</i> Hazardous in case of inhalation.</p> <p><i>Ingestion</i> Hazardous in case of ingestion. Irritating to mouth, throat and stomach.</p>
<b>Chronic Effects on Humans</b>	There is no known effect from chronic exposure to this product.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.

Special Remarks on Chronic Effects on Humans No additional remark.

### 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 No additional remark.

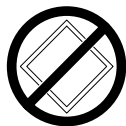
### Section 13. Disposal Considerations

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-2: Material causing other toxic effects.



Regulatory Lists No products were found.

Other Regulations The following ingredients are NOT listed on the Canadian Domestic Substances List (DSL): Live Bacteria Dispersion

Other Classifications HCS (U.S.A.) HCS Class: Irritating substance.

**USA Regulatory Lists**  
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide < 1 ppm  
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide <1 ppm  
 Massachusetts RTK: Ethylene Oxide  
 SARA 311/312: Isopropyl Alcohol; Bacteria Dispersion  
 SARA 313: No components found

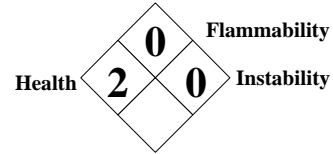
**DSD (EEC)** This product is not classified according to the EU regulations.

**International Regulations Lists** No products were found.

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

Health	2
Flammability	0
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 11/22/2006.

Verified by CRushton.

Printed 11/22/2006.

**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 11/22/2006.

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