



# Material Safety Data Sheet

WHMIS (Pictograms)

WHMIS (Classification)

HCS

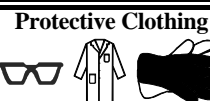


WHMIS CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). WHMIS CLASS B-5: Flammable aerosol. B-5

Class: Flammable aerosol.  
Class: Irritating substance.

## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b>	<b>Gum Remover</b>	<b>Code</b>	009
<b>Synonym</b>	Gum Remover	<b>CAS #</b>	Mixture.
<b>Chemical Family</b>	Not available.	<b>Validation Date</b>	1/18/2001
<b>Chemical Formula</b>	Not applicable.	<b>Print Date</b>	2/12/2001
<b>Manufacturer</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</b>	DSL : All components listed unless noted elsewhere on this MSDS		



## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
1) Isobutane	75-28-5	90-100	TWA: 800 (ppm) TWA: 800 (ppm) from OSHA (PEL) [United States]	Not available.
2) Propane	74-98-6	0-5	TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.
3) n-Hexane	110-54-3	0-5	TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) [United States]	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. May cause corneal opacity. Skin contact may produce burns. Tissue Destruction Possible.
<b>Potential Chronic Health Effects</b>	Severe over-exposure can result in death.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

#### Section 4. First Aid Measures

Eye Contact	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Treatment for frostbite may be necessary. Wash clothing before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Since the product is a gas and that it is mostly probable that it will be inhaled more than ingested, please consider first to look at the preventive measures in case of inhalation.

#### Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	Water Fog, Carbon Dioxide, Foam , Dry Chemical Use alcohol foam, water spray or fog.
Special Remarks on Fire Hazards	Keep containers cool. Use equipment or shielding required to protect against bursting.
Special Remarks on Explosion Hazards	Heated cans may burst

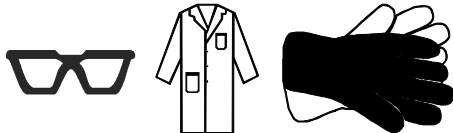
#### Section 6. Accidental Release Measures

Small Spill and Leak	Try to stop the gaseous leak by taping the container with an appropriate material (tape, stretched plastic).
Large Spill and Leak	Aerosol that may flashback. Toxic gas. Do not touch damaged container or spilled material. Use water spray to reduce vapors. Eliminate all ignition sources. Call for assistance on 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	DANGER! Avoid contact with skin and eyes. If ingested, seek medical advice immediately and show the container or the label. Keep away from sources of ignition. Keep away from heat.
Incompatibility	oxidizing agents
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep out of the reach of children.

#### Section 8. Exposure Controls/Personal Protection

Engineering Controls	Ventilation is normally required when handling or using this product.
Personal Protection	
<i>Eyes</i>	Splash goggles.
<i>Body</i>	Wear overalls or long sleeved shirt and long trousers, nitrile rubber or neoprene gloves.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves (impervious).
Protective Clothing (Pictograms)	

**Exposure Limits****Isobutane**

TWA: 800 (ppm)

TWA: 800 (ppm) from OSHA (PEL) [United States]

**Propane**

TWA: 1000 (ppm) from OSHA (PEL) [United States]

**n-Hexane**

TWA: 50 (ppm)

TWA: 50 (ppm) from OSHA (PEL) [United States]

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Gas. (Spray Mist)	<b>Odor</b>	Characteristic. (Strong.)
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH</b>	Not available.	<b>Color</b>	Clear
<b>Boiling/Condensation Point</b>	-23.889°C (-11°F)		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	0.5 (Water = 1)		
<b>Vapor Pressure</b>	52mm Hg @ 70 F		
<b>Vapor Density</b>	Not available.		
<b>Volatility</b>	Not available.		
<b>VOC</b>	100		
<b>Evaporation Rate</b>	>1 compared to Water		
<b>Odor Threshold</b>	Not available.		
<b>LogK<sub>ow</sub></b>	Not available.		
<b>Ionicity (in Water)</b>	Not available.		
<b>Dispersion Properties</b>	Not available.		
<b>Solubility</b>	Not available.		
<b>The Product is:</b>	FLAMMABLE.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	CLOSED CUP: -106.67°C (-160°F).		
<b>Flammable Limits</b>	LOWER: 1.9% UPPER: 8.5%		
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in presence of open flames and sparks. Flammable in presence of heat.		
<b>Explosion Hazards in Presence of Various Substances</b>	Highly explosive in presence of open flames and sparks, of heat.		

### Section 10. Stability and Reactivity Data

**Stability** The product is stable.

**Incompatibility with Various Substances** oxidizing agents

**Hazardous Decomposition Products** Carbon Dioxide

### Section 11. Toxicological Information

**Routes of Entry** Absorbed through skin. Eye contact. Inhalation. Skin contact.

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

#### Acute Effects on Humans

**Eyes** Extremely hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

**Skin** Very hazardous in case of skin contact (irritant). Contact may result in frostbite. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** Very hazardous in case of inhalation. May be fatal if inhaled.

**Ingestion** May be fatal if swallowed.

**Chronic Effects on Humans** Severe over-exposure can result in death.

**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.

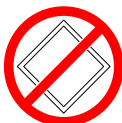
### Section 13. Disposal Considerations

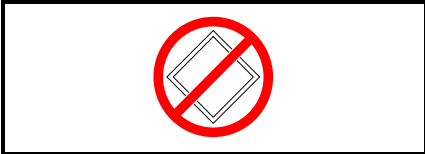
**Waste Information** Dispose as hazardous waste in accordance with EPA RCRA. Dispose of in accordance with any additional applicable local, state, and federal regulations. Regulated waste.

**Waste Stream** Not available.


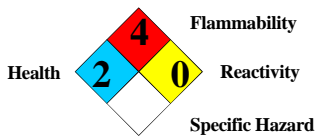
### Section 14. Transport Information

**DOT (U.S.A)  
(Pictograms)**



<b>TDG Classification</b>	Not controlled under TDG (Canada).	
<b>PIN UN, Proper Shipping Name, PG</b>	Not applicable.	
<b>Maritime Transportation</b>	Not available.	
<b>Special Provisions for Transport</b>	Not applicable.	

**Section 15. Other Regulatory Information and Pictograms**

<b>WHMIS (Classification)</b>	WHMIS CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). WHMIS CLASS B-5: Flammable aerosol. B-5									
<b>Regulatory Lists</b>	No products were found.									
<b>Other Regulations</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).									
<b>Other Classifications</b>	<b>HCS (U.S.A.)</b>	Class: Flammable aerosol. Class: Irritating substance.								
	<b>USA Regulatory Lists</b>	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: n-Hexane SARA 313 toxic chemical notification and release reporting: n-Hexane								
	<b>DSD (EEC)</b>	This product is not classified according to the EU regulations.								
	<b>International Regulations Lists</b>	No products were found.								
<b>Hazardous Material Information System (U.S.A.)</b>	<table border="1" style="display: inline-table;"> <tr><td>Health</td><td>2</td></tr> <tr><td>Flammability</td><td>4</td></tr> <tr><td>Reactivity</td><td>0</td></tr> <tr><td>Personal Protection</td><td>B</td></tr> </table>	Health	2	Flammability	4	Reactivity	0	Personal Protection	B	<b>National Fire Protection Association (U.S.A.)</b> 
Health	2									
Flammability	4									
Reactivity	0									
Personal Protection	B									

**Section 16. Other Information**

<b>Validated by CRushton on 1/18/2001.</b>	<b>Verified by CRushton.</b> <b>Printed 2/12/2001.</b>
<b>Information Contact</b>	<b>Betco Corporation</b> <b>1001 Brown Avenue</b> <b>Toledo, Ohio 43607</b>
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