






# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 	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.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>Gum Remover</b>	Code	009
Synonym	Gum Remover	Version Number	
Chemical Family	Not available.	Validation Date	3/2/2010
Chemical Formula	Not applicable.	Print Date	3/2/2010
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	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		
		Protective Clothing	
			

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Isobutane	75-28-5	90-100	TWA: 800 (ppm) TWA: 800 (ppm) from OSHA (PEL) [United States]	Not available.
Propane	74-98-6	0.1-5	TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.
n-Hexane	110-54-3	0.1-5	TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) [United States]	Not available.

## Section 3. Hazards Identification

Potential Acute Health Effects	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.
Potential Chronic Health Effects	Severe over-exposure can result in death.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

#### Section 4. First Aid Measures

<b>Eye Contact</b>	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.
<b>Skin Contact</b>	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.
<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.
<b>Ingestion</b>	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

<b>Products of Combustion</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Water Fog, Carbon Dioxide, Foam , Dry Chemical Use alcohol foam, water spray or fog.
<b>Special Remarks on Fire Hazards</b>	May explode when heated.
<b>Special Remarks on Explosion Hazards</b>	Heated cans may burst No additional remark.

#### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Try to stop the gaseous leak by taping the container with an appropriate material (tape, stretched plastic).
<b>Large Spill and Leak</b>	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.
<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>	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.
<b>Incompatibility</b>	oxidizing agents
<b>Storage</b>	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

*Eyes* Splash goggles.

*Body* Wear overalls or long sleeved shirt and long trousers, nitrile rubber or neoprene gloves.

*Respiratory* Wear appropriate respirator when ventilation is inadequate.

*Hands* 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>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.

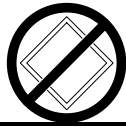
### Section 13. Disposal Considerations

**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)



TDG Classification

TDG Class 3: Flammable liquid.



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



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.)** Class: Flammable aerosol.  
Class: Irritating substance.

**USA Regulatory Lists**

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: n-Hexane  
SARA 313 toxic chemical notification and release reporting: n-Hexane

**DSD (EEC)**

This product is not classified according to the EU regulations.

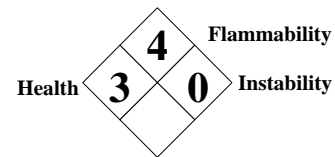
**International Regulations Lists**

No products were found.

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

Health	*	3
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 3/2/2010.

Verified by CRushton.

Printed 3/2/2010.

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 3/2/2010.

**Gum Remover**

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