

## 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. Chem	Section 1. Chemical Product and Company Identification			
Product Name/ Trade name	Gum Remover	Code		009
Synonym	Gum Remover	CAS#		Mixture.
Chemical Family	Not available.	Validation Da	ite	3/20/2004
Chemical Formula	Not applicable.	Print Date		3/27/2004
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	In Case of Emergency	Che	mtrec (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		Pro	tective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	$\mathrm{LC}_{50}/\mathrm{LD}_{50}$
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	0.1-5	TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.
3) n-Hexane	110-54-3	0.1-5	TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) [United States]	Not available.

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** 

Section 3. Hazards Identification

**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		
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	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	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.	
Fire Fighting Media and Instructions	Water Fog, Carbon Dioxide, Foam, Dry Chemical Use alcohol foam, water spray or fog.	
Special Remarks on Fire Hazards	May explode when heated.	
Special Remarks on Explosion Hazards	Heated cans may burst No additional remark.	

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		
Ventilation is normally required when handling or using this product.		
Splash goggles.		
Wear overalls or long sleeved shirt and long trousers, nitrile rubber or neoprene gloves.		
Wear appropriate respirator when ventilation is inadequate.		
Gloves (impervious).		

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

Maritime Transportation

Not applicable.

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.) The Hazard Ranking systems p	Health Flammability Physical Hazard	* 3 National Fire Protection Association (U.S.A.)  Health Ovide only a quick reference for hazard information. The ENTIRE  Specific Hazard				
		rds, First Aid measures, and PPE associated with this product.				

## Section 16. Other Information

Validated by CRushton on 3/20/2004.

Verified by CRushton.

Printed 3/27/2004.

**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.

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