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

Product Name/ Trade name	**Gum Remover**
Synonym	Gum Remover
Chemical Family	Not available.
Chemical Formula	Not applicable.
Manufacturer	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156
TSCA	**TSCA Inventory: All components listed or are exempt from listing.**
DSL	**DSL : All components listed unless noted elsewhere on this MSDS**

Code	009
CAS #	Mixture.
Validation Date	**1/18/2001**
Print Date	2/12/2001
In Case of Emergency	Chemtrec (800) 424-9300

Protective Clothing

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC_{50}/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	0-5	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

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

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

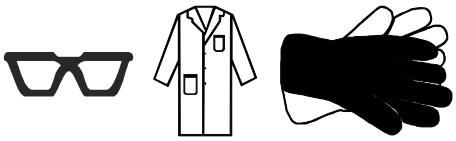
Section 6. Accidental Release Measures

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	
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

Physical State and Appearance	Gas. (Spray Mist)	**Odor**	Characteristic. (Strong.)
Molecular Weight	Not applicable.	**Taste**	Not available.
pH	Not available.	**Color**	Clear

Boiling/Condensation Point	-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
Odor Threshold	Not available.
$LogK_{ow}$	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	Not available.
Solubility	Not available.
The Product is:	FLAMMABLE.
Auto-ignition Temperature	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 and sparks. Flammable in presence of heat.
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	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

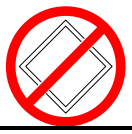
Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	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	Not controlled under TDG (Canada).
PIN UN, Proper Shipping Name, PG	Not applicable.
Maritime Transportation	Not available.
Special Provisions for Transport	Not applicable.

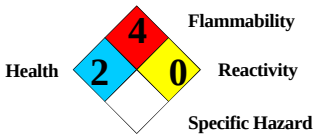
Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification)	WHMIS CLASS D-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	2
Flammability	4
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)



Section 16. Other Information

Validated by CRushton on 1/18/2001.

Verified by CRushton.

Printed 2/12/2001.

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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