



# UN-2005

## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard (29CFR 1910.1200)

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### SECTION I – PRODUCT IDENTIFICATION

Product Name:	UN-2005 (Aerosol)	Proper Shipping Name:	CONSUMER COMMODITY
Product Number:	2005	Date Prepared:	02/23/2006
Product Description:	Safety Solvent	Prepared By:	Paul Williams
Information Phone:	(800) 334-7071	24-Hour Emergency Phone:	(800) 255-3924

### NFPA – HMIS CODES

Health	2	Flammability	1	Corrosive	0	Reactivity	0	Personal Protection	B
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### SECTION II – MATERIAL IDENTIFICATION AND INFORMATION

Description	CAS #	313-Chem	Carcinogen	OSHA PEL	ACGIH TLV	Wt %
1-Bromopropane	106-94-5	NO	Not Listed	*N/E	*N/E	N/E
Carbon Dioxide	124-38-9	NO	Not Listed	5000 ppm	5000 ppm	N/E
Isopropanol	67-63-0	NO	Not Listed	400 ppm	400 ppm	N/E
*Manufacturer's suggested Exposure Limit = 25 ppm over 8 hours.						

**WARNING:** This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.

### SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	N/A	*Evaporation Rate (ether=1.0)	0.8
Vapor Pressure of Can (psig @ 70°F)	80-100	Water Solubility (Wt % @ 25°C)	None
*Vapor Pressure (mmHg @ 25°C)	90-100	Water Reactive	No
Vapor Density (Air=1.0)	>1	Viscosity, Typical (cp)	N/A
*Specific Gravity (H2O=1)	1.30	*Appearance	Dual Mist/Stream Spray
VOC (Grams/Liter @ 25°C – EPA Method 24)	N/A	*Odor	Strong Ethereal Odor
Total VOC % (Volatile Organic Compounds)	N/E	pH	N/A

\*Data Based on Aerosol Concentrate Only.

### SECTION IV – FIRE & EXPLOSION HAZARD DATA

Flash Point	N/A
Auto Ignition Temperatures	490°C / 914°F (Bromopropane)
Flammability Limits in Air	
Lower Explosive Limit Estimated	3.0 % (Bromopropane)
Upper Explosive Limit Estimated	8.0 % (Bromopropane)
Extinguishing Media	Foam, Dry Chemical, Carbon Dioxide
Unusual Fire Fighting Procedures	Do not expose aerosols to temperatures above 130°F or the container may rupture.
Special Fire Fighting Procedures	Wear self-contained breathing apparatus.
Flammability (as per USA Flame Projection Test)	Not Categorized as Flammable



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## SECTION V – HEALTH HAZARD DATA & EMERGENCY FIRST AID PROCEDURES

PRIMARY ROUTES OF ENTRY		INHALATION, SKIN ABSORPTION	
ENTRY ROUTES	ACUTE EFFECTS		FIRST AID PROCEDURES
EYES	May cause slight irritation with tearing and redness.		Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritated, seek medical attention.
INGESTION	ASPIRATION HAZARD. May cause chemical pneumonia if aspirated into lungs from vomiting. Gastrointestinal irritation.		DO NOT INDUCE VOMITING. Aspiration hazard. Get immediate medical attention.
INHALATION	Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation.		Remove to fresh air. Resuscitate if necessary. Get medical attention.
SKIN	Slight irritation due to defatting of skin, itching and redness.		Wash with soap and water. If irritated, seek medical attention.
CHRONIC EFFECTS	Effects due to long term excessive exposure to the raw materials of this mixture may cause adverse liver, kidney, respiratory system and central nervous system effects.		
MEDICAL CONDITIONS TO AVOID	May aggravate existing eye, skin, or upper respiratory conditions.		

## SECTION VI – REACTIVITY DATA

STABILITY	Stable
HAZARDOUS POLYMERIZATION	Will not occur
CONDITIONS TO AVOID	Open flame, welding arcs, heat, sparks.
INCOMPATIBILITY	Strong alkalis, oxidizers and reactive metals (i.e. potassium, sodium, etc.)
HAZARDOUS DECOMPOSITION	Carbon Dioxide, Carbon Monoxide, Hydrogen Bromide, Bromine, Hydrogen Fluoride and trace amounts of Hydrogen Chloride.

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED – Absorb spilled liquid with inert material. Place in closed drum for proper disposal. DO NOT FLUSH TO SEWER. Dispose of according to Federal, State and local regulations.	
WASTE DISPOSAL	Aerosol cans, when vented to atmospheric pressure through normal use pose no disposal hazard.
HANDLING & STORAGE	Do not puncture or incinerate containers. Do not store at temperatures above 130°F.
NFPA Code 30B Rating	Level 1 Aerosol
OTHER PRECAUTIONS	KEEP OUT OF REACH OF CHILDREN – For Industrial/Institutional Use Only. Read and follow label directions. Avoid food contamination.

## SECTION VIII – CONTROL MEASURES

RESPIRATORY PROTECTION	If vapor concentration exceeds TLV, use respirator approved by NIOSH approved for organic vapor.
VENTILATION	Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.
PROTECTIVE GLOVES	Neoprene recommended.
EYE PROTECTION	Safety glasses recommended.
OTHER PROTECTIVE CLOTHING/EQUIPMENT	None needed for proper use in accordance with label directions.
WORK HYGIENIC PRACTICES	Employees must practice good personal hygiene; washing exposed areas of skin several times daily and before eating, drinking, smoking, using restroom and at end of work period. Remove contaminated clothing and launder before reuse.

## SECTION IX – TRANSPORTATION DATA

PROPER SHIPPING NAME	CONSUMER COMMODITY
DOT ID NUMBER	N/A
DOT HAZARD CLASS	ORM-D

The information and recommendations set forth herein are presented in good faith and believed to be correct and reliable. RAMCO Specialty Products, Inc. makes no representation as to the completeness or accuracy thereof and supplies information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use.

MSDS 2006

N/D = Not Determined

N/E = Not Established

N/A = Not Applicable

< = Less Than

> - Greater Than