



# UN-2000

## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard (29CFR 1910.1200)

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### SECTION I – PRODUCT IDENTIFICATION

Product Name: <b>UN-2000 (Aerosol)</b>	Proper Shipping Name: <b>CONSUMER COMMODITY</b>
Product Number: <b>2001</b>	Date Prepared: <b>03/03/2006</b>
Product Description: <b>Safety Solvent</b>	Prepared By: <b>Paul Williams</b>
Information Phone: <b>(800) 334-7071</b>	24-Hour Emergency Phone: <b>(800) 255-3924</b>

### NFPA – HMIS CODES

Health	<b>2</b>	Flammability	<b>0</b>	Corrosive	<b>0</b>	Reactivity	<b>1</b>	Personal Protection	<b>G</b>
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### SECTION II – MATERIAL IDENTIFICATION AND INFORMATION

Description	CAS #	313-Chem	Skin	Carcinogen	PEL	TWA/TLV	Wt %
Trichloroethylene	79-01-6	YES	NO	YES	50 ppm	50 ppm	90-100
Isopropyl Alcohol	67-63-0	NO	NO	NO	400 ppm	400 ppm	01-10
Carbon Dioxide Propellant	124-38-9	NO	NO	NO	10,000 ppm	10,000 ppm	01-10

### SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

*Boiling Point	~186°F	Evaporation Rate (n-Bu-Ac=1.0)	N/A
Vapor Pressure of Can (psig @ 70°F)	90	*Water Solubility	Negligible
*Vapor Density (Air=1.0 @ 77°F)	4.5	Molecular Weight, Avg.	N/A
*Specific Gravity (H2O=1 @ 75°F)	1.419	Viscosity, Typical (cp)	N/A
VOC (Grams/Liter @ 25°C – EPA Method 24)	N/A	*Appearance	Clear Colorless Liquid
% Volatile by Volume	N/A	*Odor	Ether-Like Odor
Total VOC % (Volatile Organic Compounds)	97	*pH	N/A

\*Data Based on Aerosol Concentrate Only.

### SECTION IV – FIRE & EXPLOSION HAZARD DATA

Flash Point (Of Concentrate Only)	None to Boiling (~186°F)
Auto Ignition Temperatures	N/A
Flammability Limits in Air	
Lower Explosive Limit Estimated	N/A
Upper Explosive Limit Estimated	N/A
Extinguishing Media	Foam, CO2, Dry Media
Unusual Fire Fighting Procedures	Exposure to temperatures above 120°F may cause bursting.
Special Fire Fighting Procedures	Wear self-contained breathing apparatus and protective clothing. Cool fire-exposed containers to prevent rupturing.
Flammability (as per USA Flame Projection Test)	Non-Flammable Spray



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

ENTRY ROUTES	ADVERSE/CHRONIC EFFECTS	FIRST AID PROCEDURES
EYES	Causes severe irritation, redness, tearing and blurred vision.	Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists, get medical attention immediately.
INGESTION	Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis and pulmonary edema.	DO NOT INDUCE VOMITING. Seek medical attention immediately.
INHALATION	Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation can cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects. Long-term over-exposure may cause liver or kidney injury.	Remove to fresh air. Seek medical attention immediately. If breathing stops, give artificial respiration.
SKIN	Frequent or prolonged contact may cause irritation and possibly dermatitis.	Wash with soap and water. If irritation persists, seek medical attention.
MEDICAL CONDITIONS TO AVOID	Pre-existing skin conditions.	

## SECTION VI – REACTIVITY DATA

STABILITY	Stable – No conditions known.
HAZARDOUS POLYMERIZATION	Will not occur – No conditions known.
INCOMPATIBILITY	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION	Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride, small amount of Phosgene.

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING & USE

<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b> – Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.	
<b>WASTE DISPOSAL</b>	Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.
<b>HANDLING &amp; STORAGE</b>	Store in a cool, dry area away from heat or open flame. Do not store at temperatures above 120°F.
<b>NFPA Code 30B Rating</b>	Level 1 Aerosol
<b>OTHER PRECAUTIONS</b>	KEEP OUT OF REACH OF CHILDREN – For Industrial/Institutional Use Only. Read and follow label directions.

## SECTION VIII – CONTROL MEASURES

<b>RESPIRATORY PROTECTION</b>	If workplace exposure limits are exceeded (see Section II), use a NIOSH approved air purifying respirator for single short-term exposure. Use a positive-pressure, air-supplied respirator for multiple or long-term exposures.
<b>VENTILATION</b>	Provide local exhaust to keep air concentration of ingredients listed in Section II below established exposure limits.
<b>PROTECTIVE GLOVES</b>	Use chemical resistant gloves (Viton® or Silver Shield® preferred) to help prevent skin contact.
<b>EYE PROTECTION</b>	Always wear safety glasses or chemical proof goggles when working with chemicals.
<b>OTHER PROTECTIVE CLOTHING/EQUIPMENT</b>	None.
<b>WORK HYGIENIC PRACTICES</b>	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

<b>PROPER SHIPPING NAME</b>	CONSUMER COMMODITY
<b>DOT ID NUMBER</b>	N/A
<b>DOT HAZARD CLASS</b>	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.

N/D = Not Determined

N/E = Not Established

N/A = Not Applicable

< = Less Than

> - Greater Than

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