



**MATERIAL SAFETY DATA SHEET**

LABORATORIES

320 37th Avenue • St. Charles, Illinois 60174 • To Reorder, Call 800-323-2594

PRODUCT IDENTIFICATION  
UNITED 188

USE / DESCRIPTION  
Aerosol Anti-Seize Compound

REVISION DATE  
September 17, 2001

FOR MEDICAL AND  
TRANSPORTATION EMERGENCIES:  
INFOTRAC: 800-535-5053

**HEALTH (0 = Maximum Safety) 1**  
Always follow Label Directions and Cautions.  
4 Extreme. 3 High. 2 Moderate. 1 Slight. 0 Minimal.  
See Health Hazard Data Section of this M.S.D.S.  
for more detailed information.

**REACTIVITY (0 = Maximum Safety) 1**  
Susceptible to Release of Energy.  
4 May detonate-vacate area if Materials are exposed to fire.  
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.  
2 Violent chemical change possible-use hose stream from distance  
1 Unstable if heated-use precaution.  
0 Normally stable.

**FLAMMABILITY (0 = Maximum Safety) 3**  
Susceptibility of Material to Burning.  
4 Extremely flammable. 1 Must be preheated to burn.  
3 Ignites at normal temperature. 0 Will not burn.  
2 Ignites when moderately heated.

**PERSONAL PROTECTION**



**HAZARDOUS COMPONENTS  
IDENTITY, EXPOSURE LIMITS AND S.A.R.A. TITLE III INFORMATION**

HAZARDOUS COMPONENTS	CAS NUMBER	ACGIH TWA	ACGIH STEL	OSHA PEL	OTHER RECOMMENDED LIMITS	S.A.R.A. TITLE III QUANTITIES
Isoparaffinic hydrocarbon	64741-66-8	400 ppm	Not established	400 ppm	None	None
Copper compound	7440-50-8	1 mg/m <sup>3</sup>	Not established	1 mg/m <sup>3</sup>	NIOSH TWA 1 mg/m <sup>3</sup>	0.15*
Liquified petroleum gas	68476-85-7	1000 ppm 1800 mg/m <sup>3</sup>	Not established	1000 ppm 1800 mg/m <sup>3</sup>	NIOSH TWA 1000 ppm 1800 mg/m <sup>3</sup>	None

\* Pounds of reportable material per can of UNITED product.

**PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>BOILING POINT</b> Approximately 175°F	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b> 0.973 @ 75° F
<b>VAPOR PRESSURE (psig)</b> (At 70° F.) 45	<b>MELTING POINT</b> Not determined
<b>VAPOR DENSITY (Air = 1)</b> Greater than 1.0	<b>EVAPORATION RATE</b> (Butyl Acetate = 1) Not determined
<b>SOLUBILITY IN WATER</b> Slight	<b>VOLATILE ORGANIC COMPOUNDS (V.O.C.)</b> (Pounds Per Can Of Product) 0.525
<b>APPEARANCE AND ODOR</b> Gray viscous liquid with solvent odor.	<b>pH:</b> Not applicable

**FIRE AND EXPLOSION HAZARD DATA**

<b>FLASH POINT (Method Used)</b> 34°F (TOC) on concentrate. EXTREMELY FLAMMABLE SPRAY PER USA Flame Projection Test.	<b>FLAMMABLE LIMITS</b> Not determined	<b>LEL</b> Not determined	<b>UEL</b> Not determined
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**EXTINGUISHING MEDIA**  
Foam, dry chemical, carbon dioxide

**SPECIAL FIRE FIGHTING PROCEDURES**  
Use equipment or shielding required to protect personnel against bursting, rupturing, or venting containers.

Wear self-contained breathing apparatus and protective clothing. NFPA Code 30 B Rating: Level 3 Aerosol. Cool fire exposed containers to prevent rupturing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
At elevated temperatures (above 120°F.), containers may vent, rupture or burst.

## REACTIVITY DATA

**STABILITY:**STABLE   
UNSTABLE **CONDITIONS TO AVOID**

Do not expose to temperatures above 120°F.

**INCOMPATIBILITY (Materials To Avoid)**

Avoid contact with strong oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Carbon monoxide, carbon dioxide

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR   
MAY OCCUR **CONDITIONS TO AVOID**

Do not expose to temperatures above 120°F.

## HEALTH HAZARD DATA

**HEALTH HAZARDS**

EYES: May cause slight irritation but does not injure eye tissue. SKIN: Frequent or prolonged contact may cause irritation. INHALATION: Inhalation of vapors can cause nasal and

respiratory irritation. Excessive inhalation of vapors may cause dizziness, nausea, headaches, unconsciousness, and other central nervous system effects.

IF SWALLOWED: May cause stomach upset, nausea, vomiting and diarrhea. Aspiration of material into lungs may cause chemical pneumonitis.

**CARCINOGENICITY:**

NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

This product contains a chemical known to the state of California to cause cancer or reproductive toxicity? No

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

EYES: Irritation SKIN: Irritation INHALATION: Dizziness, nausea, headaches, unconsciousness, and other central nervous system effects.

IF SWALLOWED: Stomach upset, nausea, vomiting and diarrhea.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE**

Skin and upper respiratory disorders.

**TARGET ORGANS:**

Skin and central nervous system.

**EMERGENCY AND FIRST AID PROCEDURES**

EYES: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists, call a physician or

poison center immediately. SKIN: Wash with soap and water. If irritation persists, call a physician or poison center.

INHALATION: Remove patient to fresh air immediately. Apply CPR if needed. Call a physician or poison center immediately. IF SWALLOWED: DO NOT INDUCE VOMITING.

Aspiration of materials into lungs, due to vomiting, can cause chemical pneumonitis. Call a physician or poison center immediately.

## PRECAUTIONS FOR SAFE HANDLING AND USE

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. Keep sparks, heat sources and open flame far away from spill. Cover with

absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked sorbent material in accordance with federal, state and local regulations.

**WASTE DISPOSAL METHOD**

Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled.

For unused material, contact local, state, or federal authorities for proper disposal guidelines.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Do not expose to temperatures exceeding 120°F. Store in a cool, well-ventilated area, away from sources of ignition. Keep out of reach of children.

NFPA Code 30B Rating: Level 3 Aerosol.

## CONTROL MEASURES

### FOR USE WHERE SIGNIFICANT EYE, SKIN OR INHALATION EXPOSURE IS LIKELY

**RESPIRATORY PROTECTION (Specify Type)**

If TLV is exceeded, use NIOSH/MSHA-approved respirator.

**VENTILATION:****MECHANICAL (General)**

Provide adequate ventilation

**LOCAL EXHAUST**

Generally adequate

**PROTECTIVE GLOVES**

Chemical resistant gloves

**EYE PROTECTION**

Chemical safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Long sleeved shirts are recommended.

**WORK HYGIENIC PRACTICES**

Wash hands and face with soap and water after using this product. Remove contaminated clothing immediately and wash thoroughly with soap and water before re-using.