

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

**Product Name** United 188 Anti-Seize Compound

**Other means of identification**

**SDS#** UNITED-188

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Aerosol Anti-Seize Compound-Extreme High Temperature  
**Uses Advised Against** For industrial and institutional use only.

**Details of the supplier of the safety data sheet**

**Supplier Address**

United Laboratories, Inc.  
 320 37th Avenue  
 St. Charles, IL 60174  
 www.unitedlabsinc.com  
 www.unitedlabsinc.ca

**Emergency telephone number**

**Company Phone Number** 800-323-2594 (to reorder)  
**Emergency Telephone (24hr)** INFOTRAC 1-800-535-5053 (North America)  
 1-352-323-3500 (International)

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable Aerosols	1
Aspiration Hazard	1
Serious eye irritation/eye damage	2A
Specific target organ toxicity (single exposure)	2
Specific target organ toxicity (repeated exposure)	2

**Label elements**

**Emergency Overview**

**Danger**

**Hazard statements**

Extremely flammable aerosol. Pressurized container may burst if heated. May be fatal if swallowed and enters airways. Causes serious eye irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Environmental Hazards**

Toxic to aquatic life with long lasting effects.

**Precautionary Statements-Prevention**

Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn- pressurized container. Wash thoroughly after handling. Wear protective eye/face protection. Avoid release to the environment.

**Precautionary Statements-Response**

If swallowed: Immediately contact poison center/doctor. Do not induce vomiting. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continuing rinsing. If exposed or concerned: get medical attention. If eye irritation persists: Get medical advice/attention. Collect spillage.

**Precautionary -Storage**

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in well-ventilated area.

**Precautionary -Disposal**

Dispose of contents/container to in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified**

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Acetone	67-64-1	10-20	*
Butane	106-97-8	10-20	*
Copper	7440-50-8	10-20	*
Naphtha (petroleum), Light Alkylate	64741-66-8	10-20	*
Propane	74-98-6	10-20	*
Distillates (petroleum), Hydrotreated Light	64742-47-8	2.5-10	*
Trithanolamine	102-71-6	2.5-10	*
Aluminum	7429-90-5	0.1-1	*
Other components below reportable levels		10-20	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures****Skin Contact**

Immediately take off all contaminated clothing. Wash off with soap and water. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin.

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops or persists. Continue rinsing. If eye irritation persists: Get medical attention/advice.
<b>Inhalation</b>	Move person to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance. Call physician or poison control center immediately. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Have victim rinse mouth thoroughly with water. Call a physician or poison control center immediately. Get medical attention immediately. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If ingestion of a large amount does occur, seek medical attention.
<b>Most important symptoms/effects acute and delayed</b>	Dizziness. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Immediate medical attention is required. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water fog, dry chemical powder, alcohol resistant foam and carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread fire.

### Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

### Protective equipment and precautions for firefighters and instruction

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. Containers should be cooled with water to prevent vapor pressure build up.

### Specific Methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes. Extremely flammable aerosol.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Stay upwind. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

#### Environmental precautions

**Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Methods and material for containment and cleaning up**

**Methods for containment and cleaning up** Refer to attached safety data sheets and /or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand, or earth and place into containers. Small spills: wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see Section 13 of the SDS. This material and its container must be disposed of as hazardous waste.

Following product recovery, flush area with water. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Will ignite if exposed to intensive heat or open air. Vapors may form explosive mixtures with air. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the produce must be grounded. Do not reuse empty containers. Use only with adequate ventilation. Do not breathe gas/fumes/vapor/spray. Do not get in eyes, on skin or on clothing. Avoid prolonged exposure. Wear self-contained breathing apparatus and protective suit. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Level 2 Aerosol.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Store locked up. Pressurized container. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a cool place is recommended. Store away from compatible materials. See Section 10 of this SDS.

**Incompatible materials** Strong oxidizing agents. Nitrates. Peroxides. Oxygen. Fluorine. Chlorine. Phenols.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines/personal protection**

Exposure guidelines noted for ingredient(s).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	PEL: 1000 ppm TWA: 2400 mg/m <sup>3</sup>	TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>
Aluminum 7429-90-5	TWA: 1 mg/m <sup>3</sup>	PEL: 5 mg/m <sup>3</sup> PEL: 15 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
Butane 106-97-8	STEL: 1000 ppm	-	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>

Copper 7440-50-8	TWA: 1 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>	PEL: 1 mg/m <sup>3</sup> PEL: 0.1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup>	-	-
Propane 74-98-6	-	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	TWA: 1800 mg/m <sup>3</sup> TWA: 1000 ppm

**Biological Limited Values**

Acetone (67-64-1) – Value: 50 mg/l – Determinant: Acetone – Specimen: Urine

**Appropriate engineering controls**

**Engineering Controls**

Good general ventilation should be used (typically 10 air charges per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection and Skin/body protection**

Face shield is recommended. Wear chemical goggles. Wear chemical resistant gloves and clothing when appropriate. Wear appropriate thermal protective clothing, when necessary.

**Respiratory protection**

If permissible levels are exceeded use, NIOSH mechanical filter / organic vapor cartridge or air-supplied respirator.

**Good hygiene considerations**

When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment remove contaminants.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Aerosol
<b>Appearance</b>	Compressed liquefied gas
<b>Color</b>	Gray
<b>Odor</b>	Solvent scent
<b>Odor threshold</b>	No Information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6-7 estimated	
Specific Gravity	0.955 estimated	
Viscosity	No information available	
Melting point/freezing point	No Information available	
Flash point	-156.0°F (-104.4°C)	
High boiling point / boiling range	1557.86 °F (847.7°C)	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Flammability Class	Flammable IB estimated	
Upper explosion limit:	9.5% estimated	
Lower explosion limit:	1.6% estimated	
Vapor pressure	65-75 psig @ 70F estimated	
Vapor density	>1 (air=1)	
Relative density	0.955 g/cm <sup>3</sup> estimated	
Water solubility	Slightly	
Partition coefficient	No Information available	

<b>Autoignition temperature</b>	602.6°F (317°C)
<b>Decomposition temperature</b>	No information available
<b>Other Information</b>	
<b>Density</b>	1.55 g/cm <sup>3</sup>
<b>Heat of combustion</b>	25.53 kJ/g estimated
<b>Heat of combustion (NFPA 30B)</b>	25.53 kJ/g estimated
<b>Percent volatile</b>	46.5% estimated
<b>VOC (weight %)</b>	53.7% estimated

**10. STABILITY AND REACTIVITY**

**Reactivity**

The product is stable and not-reactive under normal conditions of use, storage and transport.

**Chemical stability**

Risk of ignition. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**Conditions to avoid**

Exposure to air. Heat, flames and sparks. Avoid high temperatures. Contact with incompatible materials.

**Incompatible materials**

Strong oxidizing agents. Nitrates. Peroxides. Oxygen. Fluorine. Chlorine. Phenols.

**Hazardous Decomposition Products**

May include oxides of nitrogen. May include oxides of phosphorus.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

<b>Ingestion</b>	Droplets of this product aspirated into lungs through ingestion or vomiting may cause a serious chemical pneumonia.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.
<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Dizziness. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Chemical Name	Dermal LD50	Inhalation LD50	Oral LC50/LD50
Butane (106-97-8)	-	1355 mg/l (Rat)	-
Copper (7440-50-8)	>2000 mg/kg, 24 hours (Rat)	-	300-500 mg/kg
Distillates (Petroleum) Hydrotreated Light (964742-47-8)	>2000 mg/kg >2000 mg/kg, 24 hours (Rabbit)	>7.5 mg/l, 6 hours >4.6 mg/l, 4 hours (Rat)	>5000 mg/kg (Rat)

Naphtha (Petroleum) Light Alkylate (64741-66-8)	>1900 mg/kg 24 hours (Rabbit)	>5020 mg/m3, 4 hours >4980 mg/m3 >4980 mg/m3, 4 hours >4.96 mg/l 4 hours (Rat)	4820 mg/kg (Rat)
Acetone (67-64-1)	>7426 mg/kg, 24 hours >9.4 mg/kg, 24 hours (Rabbit)	55700 ppm, 3 hours 132 mg/l, 3 hours 50.1 mg/l (Rat)	5800 mg/kg 2.2 ml/kg (Rat)
Aluminum (7429-90-5)		>0.888 mg/l, 4 hours 7.6 mg/l <1L: Consumer Commodity hours (Rat)	>15900 mg/kg (Rat)
Propane (74-98-6)	-	1355 mg/l 658 mg/l/4 hours (Rat)	-
Triethanolamine 102-71-6	>2000 mg/kg (Rabbit)	-	6400 mg/kg (Rat)

**Information on toxicological effects**

May be fatal if swallowed and enters airways. Acute LC50: 2134 mg/l/4 hours, Rat, Inhalation.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin Sensitization</b>	This product is not expected to cause skin sensitization.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b>Respiratory Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure. Not expected to be hazardous by WHMIS criteria. IARC Monographs. Overall Evaluation of Carcinogenicity-Triethanolamine (102-71-6). OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.
<b>Reproductive toxicity</b>	Not expected to be hazardous by OSHA criteria.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Chronic Effects</b>	Prolonged inhalation may be harmful. May be harmful if absorbed through skin. Prolonged exposure may cause chronic effects. Prolonged and repeated exposure may cause liver and kidney damage. These effects have not been observed in humans. Not expected to be hazardous by WHMIS criteria.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Partition coefficient n-octanol / water (log Kow)**

Chemical Name	Partition coefficient
Butane	2.89
Acetone	-0.24
Propane	2.36
Triethanolamine	-1

**Mobility in Soil**

No information available.

**Other adverse effects**

No other adverse environmental effects are expected from this component.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Instructions** Consult authorities before disposal. Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents / container in accordance with local/regional/national/international regulations.

**RCRA Hazardous Waste** The waste code should be assigned in discussion between the user, the producer and the Waste disposal company. US RCRA Hazardous Waste U List: Acetone (67-64-1) U002.

**Waste from residues/unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

This product meets the exception requirements of Section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity – ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/2020 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**DOT**

<b>UN/ID No.</b>	UN1950
<b>Proper shipping name</b>	Aerosols, flammable
<b>Transport hazard class(es)</b>	2.1
<b>Label(s)</b>	2.1
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	N82
<b>Packaging exceptions</b>	306

**IATA**

<b>UN Number</b>	UN1950
<b>UN shipping name</b>	Aerosols, flammable
<b>Transport hazard class(es)</b>	2.1
<b>Label(s)</b>	2.1
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	10L
<b>Passenger and cargo aircraft</b>	Allowed
<b>Packaging exceptions</b>	Limited Quantity

**IMDG**

<b>UN Number</b>	UN1950
<b>UN Proper shipping name</b>	Aerosols
<b>Transport hazard class(es)</b>	2.1
<b>Label(s)</b>	2.1
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-D,S-U
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Packaging exceptions</b>	Limited Quantity



**15. REGULATORY INFORMATION**

**US Federal Information**

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910,1200.

**International Inventories**

Canada, China, Europe, United States and Puerto Rico - Yes

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory-Not regulated.

**SARA 302 Extremely hazardous substance**

Not regulated.

**SARA 312 Hazardous Chemicals**

None known.

**SARA 313 (TRI reporting)**

Copper (7440-50-8) / 10-20 % of weight. Aluminum (7429-90-5) / 0.1-1 % by weight.

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CERCLA**

This material, as supplied, does contain a substance regulates as a hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material. Acetone (67-64-1) and Copper (7440-50-8)

**Other federal regulations**

**CAA Section 112 Hazardous Air Pollutants (HAPs List)**

Not regulated.

**CAA Section 112 (r) Accidental Release Prevention**

Butane (106-97-8) - Propane (74-98-6)

**SDWA** – Not regulated.

**Drug Enforcement Administration (DEA), List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04 (f)(2) and Chemical Code Number:** Acetone (67-64-1) -6532.

**DEA, List 1&2 Exempt Chemical Mixtures and Mixtures Code Number (21 CFR 1310, 12 (c))** Acetone (67-64-1), 35% WV, 6532

**California Proposition 65**

WARNING: This product contains a chemical(s) known to the State of California to cause cancer. Diethanolamine (111-42-2) Listed.

**US State Right-To Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Butane 106-97-8	X	X	X
Acetone 67-64-1	X	X	X
Aluminum 7429-90-5	X	X	X
Propane 74-98-6	X	X	X
Triethanolamine 102-71-6	X	X	X
Copper 7440-50-8	X	X	X

**16. OTHER INFORMATION**

<u><b>NFPA</b></u>	Health hazards -	Flammability -	Reactivity -	<b>Physical and Chemical Properties</b> None
<u><b>HMIS</b></u>	Health hazards 1	Flammability 3	Reactivity 1	<b>Personal protection</b> B

**Issue Date** 11-Apr-2015  
**Revision Date** 04-August-2015  
**Revision Note**  
 No Information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**