

**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

**Label elements****Emergency Overview****Danger****Hazard statements**

Extremely flammable aerosol. May be fatal if swallowed and enters airways.



**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.

**Precautionary Statements-Response**

If swallowed: Immediately contact poison center/doctor. Do not induce vomiting.

**Precautionary -Storage**

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Precautionary -Disposal**

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

**Environmental hazards**

Hazardous to the aquatic environment, acute and long term.

**Hazard(s) not otherwise classified**

Combustible.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%	Trade Secret
Butane	106-97-8	20-40	*
Distillates (Petroleum), Hydrotreated Light	64742-47-8	20-40	*
Propane	74-98-6	10-20	*
Triethanolamine	102-71-6	10-20	*
Copper	7440-50-8	2.5-10	*
Acetone	67-64-1	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** Wash off with soap and water. Get medical attention if irritation develops or persists.

**Eye contact** Rinse with water. If eye irritation persists: Get medical attention/advice.

**Inhalation** If symptoms develop move person to fresh air. Call a physician if symptoms develop or persist.

<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>Most important symptoms/effects acute and delayed</b>	Aspiration may cause pulmonary edema and pneumonitis.
<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.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Dry powder. Dry chemicals. Alcohol resistant foam and carbon dioxide (CO2).

**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. During fire, gases hazardous to health may be formed.

### 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.

Move containers from fire area if you can do it without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

### 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. General hazards; Extremely flammable aerosol. Combustible.

## 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. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of this SDS.

### 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. Use water spray to reduce vapors or divert vapor cloud drift. 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. Following product recovery, flush area with water.

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

**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.

## 7. HANDLING AND STORAGE

**Precautions for safe handling****Advice on safe handling**

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 get in eyes, on skin or on clothing. Avoid prolonged or repeated contact with skin. 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 away from incompatible 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: 500 ppm TWA: 250 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> (Respirable dust)	TWA: 5 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (Respirable)
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> (Dust/mist/fume)	TWA: 1 mg/m <sup>3</sup> (dust and mist)
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: 25mg/l – Determinant: Acetone – Specimen: Urine

**Appropriate engineering controls****Engineering Controls**

Good general ventilation should be used (typically 10 air changes 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 safety glasses with side shields (or goggles). Wear chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. 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. 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>	Liquid
<b>Color</b>	No information available
<b>Odor</b>	No information available
<b>Odor threshold</b>	No Information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
pH	No information available	
Specific Gravity	0.964 estimated	
Viscosity	No information available.	
Melting point/freezing point	No Information available.	
Flash point	-154.0°F (-103.3°C) propellant estimated	
High boiling point / boiling range	1278.49°F (692.49°C) estimated	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Upper explosion limit:	11.6% estimated	
Lower explosion limit:	1.5% estimated	
Vapor pressure	45-65 psig @ 70F estimated	
Vapor density	No information available.	
Relative density	No information available.	
Water solubility	No information available.	
Partition coefficient	No Information available.	
Autoignition temperature	754.46°F (401.37°C) estimated	
Density	0.96 g/cm <sup>3</sup> estimated	
Flammability class	Flammable 1B estimated	
Heat of combustion (NFPA 30B)	26.67 kJ/g estimated	
Oxidizing properties	Not oxidizing	
Percent volatile	42.15% estimated	
VOC	61.94%	

## 10. STABILITY AND REACTIVITY

### Reactivity

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

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

### Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### Incompatible materials

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

### Hazardous Decomposition Products

No hazardous decomposition products are known.

## 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>	Direct contact with eyes may cause temporary 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>	No adverse effects due to inhalation are expected.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Aspiration may cause pulmonary edema and pneumonitis.
<b>Acute toxicity</b>	May be fatal if swallowed and enters airways.

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)	>5.11 mg/l, 4 hours (Rat)	481 mg/kg (Rat)
Distillates (Petroleum), Hydrotreated Light (64742-47-8)	>2000 mg/kg 24 hours (Rabbit)	>7.5 mg/l 6 hours (Rat)	>5000 mg/kg
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)	>2000 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)
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**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>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory Sensitization</b>	Not a respiratory sensitizer.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure. <b>IARC Monographs, Overall Evaluation of Carcinogenicity:</b> Triethanolamine (102-71-6) 3 Not classifiable as to carcinogenicity to humans. <b>OSHA Specifically Regulated Substances</b> (29CFR1001-1050) Not listed.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<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>	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.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No information available on the degradability of this product.

**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 (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. 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.

<b><u>Local disposal regulations</u></b>	Dispose in accordance with all applicable regulations.
<b><u>Hazardous Waste</u></b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b><u>Waste from residues/unused products</u></b>	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.
<b><u>Contaminated packaging</u></b>	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.

<b>14. TRANSPORT INFORMATION</b>
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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 This substance/mixture is not intended to be transported in bulk.



**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 304 Emergency release notification**

Not regulated.

**SARA 312 Hazardous Chemicals**

None known.

**SARA 313 (TRI reporting)**

Copper (7440-50-8) / 2.5-10 % of weight. Aluminum (7429-90-5) 0.1-1 % by weight.

**SARA 311/312 Hazard Categories**

<b>Immediate health hazard</b>	Yes
<b>Delayed 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 (40CFR68.130)**

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

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixture (21CFR1310.12(c))**

Acetone (CAS 67-64-1) 35%WV

**DEA Exempt Chemical Mixtures Code Number**

Acetone (CAS 67-64-1) 6532

**California Proposition 65**

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

US-California Proposition 65 – CRT: Listed date/Carcinogenic substance: Diethanolamine (111-42-2) – June 22, 2012

**US State Right-To Know Regulations**

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania / Rhode Island X*</b>	
Butane 106-97-8	X	X	X	X*
Acetone 67-64-1	X	X	X	X*
Aluminum 7429-90-5	X	X	X	X*
Propane 74-98-6	X	X	X	X*

Triethanolamine 102-71-6	X	X	X
Copper 7440-50-8	X	X	X X*

US California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit.22, 69502.3, subd. (a))) Acetone (67-64-1) Aluminum (7429-90-5) Butane (106-97-8) Copper (7440-50-8).

**16. OTHER INFORMATION**

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

Issue Date 04-Aug-2015  
 Revision Date 31-Aug-2017  
 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**