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Version 4

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

**Product Name** United 166 POWER UP

**Other means of identification**

**SDS#** UNITED 166

**Recommended use of the chemical**

**And restrictions on use**

**Recommended use** Foaming, No Rinse Chiller Coil Cleaner.

**Uses Advised Against** For industrial and institutional use only.

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

**Company Name**

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

**Emergency telephone number**

**Emergency Telephone** 800-323-2594 (to reorder)  
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)

Aerosol	Category 1
Gases under pressure	Compressed gas
Specific Target Organ Toxicity (repeated exposure)	Category 2

**Label elements**

**Danger**



**Hazard Statements**

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements****Prevention**

Read and have the product label (or container) on hand if medical advice is needed. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe mist, vapors or spray.

**Response**

Get medical attention if you feel unwell.

**Storage**

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. In addition, keep upright in a cool, dry place.

**Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations. In addition, do not discard empty can in a trash compactor.

**Percentage of mixture consisting of ingredient(s) of unknown:**

Oral toxicity: 1.5%. Dermal toxicity: 2.5%. Inhalation toxicity: 1.5%

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Propane	74-98-6	1-3	*
Butane	106-97-8	1-3	*
Ethylene Glycol Monobutyl Ether	111-76-2	1-3	*

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

### 4. FIRST AID MEASURES

**First aid measures****Eye Contact**

Immediately flush eyes with plenty of water. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Skin Contact**

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in the recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

**Ingestion**

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Use extinguishing media suitable for surrounding fire.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical**

Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous decomposition products may form and include the following materials: Carbon oxides

**Protective equipment and precautions for firefighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Specific methods/protective actions**

Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting cans.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk-through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Emergency Procedure**

**Small spill:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. **Large spill:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Stop spill/release if it can be done safely.

**7. HANDLING AND STORAGE**

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

Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas.

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

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

**Storage Conditions**

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TWA/STEL/TLV	OSHA STEL/TWA	NIOSH TWA/STEL
Ethylene Glycol Monobutyl Ether 111-76-2	20 ppm TWA	50 ppm TWA 240 mg/m <sup>3</sup> TWA  1-Skin designation 1-Tables (Z1,Z2, Z3)	5 ppm TWA 24 mg/m <sup>3</sup> TWA
Butane 106-97-8	1000 ppm (EX) STEL CNS impair	-	800 ppm TWA 1900 mg/m <sup>3</sup> TWA
Propane 74-98-6	Simple asphyxiant (D), explosion hazard (EX)  Asphyxia TLV	1800 mg/m <sup>3</sup> TWA 1000 ppm TWA  1-Tables(Z1,Z2,Z3)	1800 mg/m <sup>3</sup> TWA 1000 ppm TWA

*Ethylene Glycol Monobutyl Ether-A3 ACGIH Carcinogen, BEI; Eye & amp; URT irr. (C) - Ceiling limit, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, URT - Upper respiratory tract.*

**Appropriate engineering controls**

**Engineering Controls** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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

- Eye/face protection** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin and body protection** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Respiratory protection** Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved airline respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** Liquid aerosol  
**Appearance** Thick foam  
**Color** Clear colorless

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	11.4	
Specific Gravity	No information available	
Flash point	-29°C (Closed cup)	
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available	
Evaporation rate	Not applicable	
Flammability (solid, gas)	No information available	
Flammability Limits in Air	No information available	
Upper explosion level:	10.6%	
Lower explosion level:	1.1%	
Vapor pressure	101.3 kPa (20°C)	
Vapor density	1.0	Air=1
Viscosity, Kinematic	>20.5 cm <sup>2</sup> /s (40°C)	
Water solubility	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Density	8.09 lb/gal	
Density VOC	0.40 lb/gal	
VOC content	5.00%	

## 10. STABILITY AND REACTIVITY

### Chemical stability

Material is stable under normal conditions.

### Possibility of Hazardous Reactions/Polymerization

Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid & Incompatible materials

Keep away from heat, sparks, extreme temperature, flame, other sources of ignition and incompatible materials.

### Incompatible Materials

No information available.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation, ingestion, skin absorption.

<b>Respiratory/Skin Sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No information available.
<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/irritation</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT – single exposure</b>	No information available.
<b>STOT – repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	No information available.

### **Acute Toxicity**

#### **111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER**

LC50 (female rat): 450 ppm (4-hour exposure) (2)

LC50 (male rat): 486 ppm (4-hour exposure) (2)

LD50 (oral, male weanling rat): 3000 mg/kg (1)

LD50 (oral, 6-week old male rat): 2400 mg/kg (1)

LD50 (oral, yearling male rat): 560 mg/kg (1)

LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1) LD50 (oral, male mouse): 1230 mg/kg (1)

LD50 (oral, rabbit): 320 mg/kg (1)

LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

#### **106-97-8 BUTANE**

LC50 (mouse): 202000 ppm (481000 mg/m<sup>3</sup>) (4-hour exposure); cited as 680 mg/L (2-hour exposure)

(9) LC50 (rat): 276000 ppm (658000 mg/m<sup>3</sup>) (4-hour exposure); cited as 658 mg/L (4-hour exposure)(9)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information available.

### Persistence and degradability

Readily biodegradable. Ethylene Glycol Monobutyl Ether: 111-76-2

### Bioaccumulation

No information available.

### Mobility in soil

No information available.

### Other adverse effects

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal considerations**

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of the material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

**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 12/31/20 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>UN proper shipping name</b>	Aerosols, LTD. QTY.
<b>Hazard class</b>	2.1
<b>Packing group</b>	No information available

**IATA**

<b>UN Number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, LTD. QTY.
<b>Hazard class</b>	2.1

**IMDG**

<b>UN Number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable; LTD. QTY.
<b>Hazard class</b>	2.1

**15. REGULATORY INFORMATION**

**TSCA** Complies – All chemicals are listed.

**CERCLA**

This material, as supplied, contains a substance regulated as 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). Ethylene Glycol Monobutyl Ether; 111-76-2.

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**CERCLA:** Comprehensive Environmental Response, Compensation, and Liability Act

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Reportable ingredients – Ethylene Glycol Monobutyl Ether; 111-76-2.

**SARA 311/312 Hazard Categories**

Ethylene Glycol Monobutyl Ether; 111-76-2. Butane; 106-97-8. Propane; 74-98-6

**SARA 304 Emergency release notification**

No information available.

**SARA 302 Extremely hazardous substance**

No information available.

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health hazards 1	Flammability 4	Instability 1	<b>Physical and Chemical Properties</b> None
<b><u>HMIS</u></b>	Health hazards *1	Flammability 4	Physical hazards 1	<b>Personal protection</b> B

( \* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

<b>Issue Date</b>	07-Apr-2022
<b>Revision Date</b>	04-Aug-2022
<b>Revision Note</b>	Regulatory Revisions

**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 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**