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Version 5

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 Foaming, No Rinse Chiller Coil Cleaner.

Recommended use For industrial and institutional use only.

Uses Advised Against

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)

Flammable Aerosol	Category 2
Liquefied Gas	

Label elements

Emergency Overview

Warning

Hazard statements

Flammable aerosol. Contains gas under pressure; may explode if heated.

This product contains chemicals of unknown toxicity: N/A

**Appearance** Clear colorless aerosol**Physical state** Liquid Aerosol**Odor** Citrus scent**Precautionary Statements**

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container. Do not pierce or burn even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Storage

Store in a well-ventilated place. Keep the container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

Dispose of contents/container in accordance with local/state and federal regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
n-Butane	106-97-8	1 - 5	*
Propane	74-98-6	1 - 5	*

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

4. FIRST AID MEASURES

First aid measures**Eye Contact**

Immediately flush with water for at least 15 minutes while holding eyelids open. See a physician if irritation develops.

Skin Contact

Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek attention if irritation develops.

Inhalation

Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration. Seek medical attention if irritation persists.

Ingestion

Do not induce vomiting unless directed by medical authority. Immediately rinse mouth with water. Drink large quantities (1 qt., 2-4 glasses) of warm water. Seek medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed

Acute Health Hazards: Prolonged contact with skin may cause irritation. Contact with the eyes may cause irritation, redness, and tearing. Inhalation of mist or vapors may cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Chronic Health Hazards: Prolonged inhalation may be harmful.

Indication of any immediate medical attention and special treatment needed

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, carbon dioxide, foam, water spray for cooling.

Unsuitable extinguishing media Not applicable.

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

Wear NIOSH approved Self-Contained Breathing Apparatus with a full-face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Shut off all sources of ignition Use water spray to disperse vapor and cool fire exposed containers. Prevent run off from entering streams, sewers, or drinking water supply.

Specific methods fire and explosion hazards

Flammable. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Hazardous Combustion Products

Oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Keep unnecessary personnel away. For personal protective equipment, see Section 8 of the SDS.

Methods and material for containment and cleaning up

Methods for containment and cleaning up Refer to attached SDS and/or instructions for use.

Spill: Eliminate all sources of ignition. Absorb with non-combustible material like vermiculite, sand or earth. Place waste in proper containers for waste disposal.

Waste Disposal Dispose of in accordance with federal, local, and state regulations. Do not dump in sewers.

RCRA Status Waste likely considered D001 (Ignitable waste), under RCRA, however, product should be fully characterized prior to disposal (40 CFR 261).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes, and clothing. Store in a cool, dry area. Do not use or store with strong oxidizers. Protect from sunlight. Store in a well-ventilated area. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use.

Conditions for safe storage, including any incompatibilities

Other precautions Keep out of the reach of children. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.

Incompatible materials Strong acids, strong alkalis, strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
n-Butane 106-97-8	1000 ppm	Not Established	-
Propane 74-98-6	1000 ppm	1000 ppm	-

Appropriate engineering controls

Engineering Controls Good ventilation should be used. Local exhaust is recommended exposure limits.

Individual protection measures, such as personal protective equipment

- Eye/face protection** Wear safety glasses/goggles.
- Skin and body protection** Wash hands thoroughly after handling.
- Respiratory protection** Not required with adequate ventilation. Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid aerosol
Appearance White foam aerosol
Color White foam
Odor Citrus scent, moderate ammonia odor
Odor threshold No Information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	11.3-11.7	
Specific Gravity	No information available	
Flash point	Not determined	
Melting point/freezing point	< 32°F (0° C)	
Flash point	Not determined	
Boiling point / boiling range	>212°F (100°C)	
Evaporation rate	Slow	
Flammability (solid, gas)	Flammable aerosol	
Flammability Limits in Air	No information available	
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	Not determined	
Vapor density	Not determined	
Relative density	0.99 – 1.10 @ 77°F (25°C)	
Water solubility	100% water	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Density	No information available	
VOC content	16 %	

10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

None known.

Conditions to avoid & Incompatible materials

Temperatures greater than 122°F/50°C may cause bursting. Avoid incompatibles.

Incompatible Materials

Strong acids, strong alkalis and strong oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Inhalation	May cause respiratory tract irritation. Avoid breathing spray mist.
Eye contact	Not classified for eye corrosion/irritation based on product testing results. May cause irritation.
Skin Contact	Not classified for acute dermal toxicity based on product testing results. Not classified for skin corrosion or irritation based on product testing results. Not classified for skin sensitization based on product testing results. May cause irritation, dryness, and redness with prolonged or repeated contact.
Ingestion	Not classified for acute oral toxicity based on product testing results. May cause gastrointestinal irritation, and abdominal cramps.

Information on toxicological effects

Medical condition aggravated:	None known.
Acute Health Hazards:	Prolonged contact with the skin may cause irritation. Contact with eyes may cause irritation, redness, tearing. Inhalation of mist or vapors may cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
Chronic Health Hazards:	Prolonged inhalation may be harmful.

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

Sensitization	None known.
Germ cell mutagenicity	No information available.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not expected to be hazardous by WHMIS criteria.
Reproductive toxicity	No information available.
STOT – single exposure	No information available.
STOT – repeated exposure	No information available.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Avoid release to the environment. Potassium hydroxide (1310-58-3).

Persistence and degradability

This product is biodegradable.

Bioaccumulation

This product is not expected to bioaccumulate.

Mobility in soil

This product is mobile in soil.

Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal considerations Dispose of contents/container in accordance with federal, state and local regulations. Do not dump in sewers.

RCRA Status Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40CFR261).

14. TRANSPORT INFORMATION

DOT

UN/ID No. UN1950
UN proper shipping name Aerosols, Ltd. Qty.
Transport hazard class(es)
 Class 2.1
Packing group N/A
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN Number UN1950
UN proper shipping name Aerosols, flammable
Transport hazard class(es) 2.1
 Label(s) 2.1

Packing group N/A

Environmental hazards N/A

IMDG

UN/ID No. UN1950
UN Proper shipping name Aerosols, Ltd. Qty.
Transport hazard class(es)
 Class 2.1

Environmental Hazard
 Marine Pollutant No

15. REGULATORY INFORMATION

International Regulations All components are listed or exempted.

TSCA Complies – All chemicals are listed or exempt.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Reportable ingredients – None that exceed the threshold (de minimis) reporting levels.

SARA 311/312 Hazard Categories

Flammable (gases, aerosols, liquids, solids). Gas under pressure.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). **Ethylenediaminetetraacetic acid (EDTA)** (60-00-4) Reportable Quantity = 5000 pounds. **Potassium hydroxide** (1310-58-3) Reportable Quantity = 1,000 pounds. **Sodium nitrite** (7632-00-0) Reportable Quantity = 100 pounds. **Ammonium hydroxide** (1336-21-6) Reportable Quantity = 1,000 pounds.

Clean Water Act

Ethylenediaminetetraacetic acid (EDTA) (60-00-4) is a hazardous substance.

US State Regulations

California Proposition 65: This product contains no known chemicals regulated by California Proposition 65. **2-Butoxyethanol** (111-76-2): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, PA, RI. **Isopropyl alcohol** (67-63-0): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CT, FL, IL, MA, MN, NJ, PA, RI, TN.

Ethylenediaminetetraacetic acid (EDTA) (60-00-4): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, PA. **Potassium hydroxide** (1310-58-3): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, IL, LA, MA, MN, NJ, NY, PA, RI. **Sodium nitrite** (7632-00-0): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, NJ, PA.

International regulations

No information available.

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 1	Flammability 1	Instability 1	Physical and Chemical Properties None
<u>HMIS</u>	Health hazards 1	Flammability 0	Physical hazards 1	Personal protection A

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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