

SAFETY DATA SHEET

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
www.unitedlabsinc.ca**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
Health hazards – eye irritation	Category 2b
OSHA defined hazards	Not classified

Label elements**Emergency Overview**

Warning

Hazard statements

Flammable aerosol. Contains gas under pressure. May explode if heated. Causes eye irritation.

This product contains 0% of chemicals of unknown toxicity.

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

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. Store in a well-ventilated place. Wash thoroughly after handling. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists; get medical attention.

Storage

Store in a well-ventilated place. Keep 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/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Environmental hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
2-Butoxyethanol	111-76-2	5 - 10	*
Propane/n-Butane	68476-86-8	3 - 7	
Isopropyl Alcohol	67-63-0	1 - 5	*
EDTA	60-00-4	0.5 – 1.5	*
Potassium Hydroxide	1310-58-3	0.5 – 1.5	*
Other components below reportable levels		75 - 90	

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

4. FIRST AID MEASURES**First aid measures****Eye Contact**

Remove contact lenses. Flush with water for at least 15 minutes. See a physician if irritation persists.

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 or at any sign of loss of consciousness seek immediate medical attention.

Ingestion

Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed

May cause serious eye irritation. Symptoms may include burning sensation, redness and pain. Skin irritation. May cause redness or rash. Breathing vapors and mists may cause mucous membrane and respiratory irritation like headache, dizziness, drowsiness. Intentional miss use by concentrating and inhaling contents may be harmful or fatal. Exposure by ingestion is unlikely since an aerosol, but if occurs, may cause gastrointestinal irritation, nausea, vomiting, or dizziness.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. There is no specific treatment regimen.

Acute Health Hazards: Eyes: redness, tearing, blurred vision.

Chronic Health Hazards: None known.

General information

Make sure that medical personnel is aware of the materials involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use appropriate media for surrounding fire.

Unsuitable extinguishing media None known.

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

Firefighter must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in an enclosed space, SCBA. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Specific methods

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

General fire hazards

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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see Section 8 of the SDS.

Environmental precautions**Environmental precautions**

This material is not expected to be toxic to aquatic life.

Methods and material for containment and cleaning up

Methods for containment	Refer to attached SDS and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil etc.) away from spilled material. Many gases are heavier than air and will spread along ground and collect in low confined area (sewers, basements, tanks). Keep out of low areas. Stop leak if you can do at no risk.
Methods for cleaning up	Use non-combustible material like vermiculite, sand or earth on spill, sweep to clean. Dispose in accordance with local, state, and federal laws. Small releases may be wiped up with wiping material. For waste disposal, see Section 13 of the SDS. Do not flame cut, braze, or weld. Empty container very hazardous.
RCRA Status	Product should be fully characterized prior to disposal (40 CFR 261).

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling	Do not handle until all safety precautions have been read and understood. Pressurized container: do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material. Do not smoke while using. Do not weld, drill, grind, cut or expose containers to heat, flame, sparks, or other sources of ignition. Do not re-use empty containers. Do not breathe gas. Do not get this material in contact with eyes. Avoid prolonged exposure. Do not eat or smoke when using product. Do not swallow. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep tightly closed in a dry and cool place. Do not puncture, incinerate or crush. Keep away from all food. Keep away from heat and sources of ignition. Avoid exposure to direct sunlight and do not expose to temperatures exceeding 50°C/122°F. Keep in properly labeled containers. Store in ventilated area.
Incompatible materials	Store away from incompatible materials (see section 10) – Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	20 ppm	PEL: 50 ppm	-
Propane/n-Butane 74-98-6	1000 ppm	PEL: 1000 ppm	-
Isopropyl Alcohol 67-63-0	400 ppm	PEL: 500 ppm	-
EDTA	Not established	Not established	-
Potassium Hydroxide 1310-58-3	2 mg/m3	2 mg/m3	

Appropriate engineering controls**Engineering Controls**

Good ventilation (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. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses. Avoid contact with eyes.

Skin and body protection

None needed

Respiratory protection

Not required with adequate ventilation.

General Hygiene

When using this material, do not eat, drink or smoke. Wash hands and clothing in contact with product after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid aerosol
Appearance	Clear colorless aerosol
Color	Clear colorless
Odor	Citrus
Odor threshold	No Information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	12.3	
Specific Gravity	1.000 @ 25°C/77°F estimated	
Flash point	~156.0°F (~104.4°C) Propellant est.	
Melting point/freezing point	No Information available	
Flash point	Not determined	
Boiling point / boiling range	Not determined	
Evaporation rate	<0.8	
Flammability (solid, gas)	Flammable aerosol	
Flammability Limits in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	23.8 mmHg @ 25°C/77°F estimated	
Vapor density	1 (Air=1)	
Relative density	0.969 g/cm ³ estimated	
Water solubility	No Information available	
Partition coefficient	No Information available	
Autoignition temperature	725 °F (383 °C) estimated	
Decomposition temperature	No Information available	
Density	0.94 g/cm ³ estimated	
Flammability class	Flammable IB estimated	
Percent volatile	97 percent estimated	
VOC content	< 15 percent	

10. STABILITY AND REACTIVITY

Reactivity

Product is stable and non-reactive under normal conditions.

Chemical stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to avoid & Incompatible materials

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

Hazardous Decomposition Products

Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation	Prolonged inhalation may cause dizziness, headaches upon long term exposure.
Eye contact	Causes eye irritation, may cause mild burns if left untreated.
Skin Contact	May cause irritation, dermatitis with prolonged exposure.
Ingestion	Causes gastrointestinal irritation, headaches, nausea, diarrhea, abdominal cramps.

Information on toxicological effects Not established.

Medical condition aggravated:	Asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat conditions. Skin irritation may be aggravated in individuals with existing skin disorders.
Acute Health Hazards:	Eyes – redness, tearing, blurred vision.
Chronic Health Hazards:	None known.

Symptoms related to the physical, Chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling and blurred vision. Skin irritation can cause redness and pain.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	None known.
Germ cell mutagenicity	Not expected to be hazardous by OSHA criteria or WHMIs criteria.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not expected to be hazardous by WHMIS criteria.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol 111-76-2	-	Group 3	-	X

IARC (International Agency for Research on Cancer)

Group 3 -Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	Not expected to be hazardous by OSHA criteria.
STOT – single exposure	Not classified.
STOT – repeated exposure	Not classified

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Not determined.

Persistence and degradability

No Information available.

Bioaccumulation

This product is not expected to bioaccumulate.

Other adverse effects

No other adverse environmental effects are expected from this component.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal considerations**

Dispose of contents/container in accordance with local/regional/national/international regulations. Contents under pressure. Do not puncture, incinerate or crush Empty container very hazardous.

Waste from residues/unused products

Dispose of in accordance with local regulations. Empty containers or liners may remain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging

Empty containers should be disposed of in accordance with local regulations. Follow label warnings even after container is emptied, as some may retain residue. Do not re-use emptied containers. RCRA status: Product should be fully characterized prior to disposal (40 CFR 261)

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

UN/ID No.	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Label(s)	2.1
Packing group	Not applicable.
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)	
Class	2.1
Label(s)	2.1
Packing group	
Environmental hazards	No

IMDG

UN/ID No.	UN1950
UN Proper shipping name	Aerosols
Transport hazard class(es)	
Class	2.1
Label(s)	2.1
Environmental Hazard	
Marine Pollutant	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	Ltd. Qty.. .

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

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactivity Hazard	No

CERCLA

This material, as supplied, does not contain any substances 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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

SARA 304 Emergency release notification
Not regulated.

SARA 302 Extremely hazardous substance
Not regulated..

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Butoxyethanol 111-76-2	X	X	X
Butane 106-97-8	X	X	X
Propane 74-98-6	X	X	X

California Proposition 65

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. This product does not contain any chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 1	Physical and Chemical Properties Yes
<u>HMIS</u>	Health hazards 1	Flammability 0	Physical hazards 1	Personal protection A

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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 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