SAFETY DATA SHEET

Issue Date 11-Apr-2015 **Revision Date** 21-May-2015 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name United 105 CUTTING AND TAPPING FLUID

Other means of identification
SDS# UNITED 105

Recommended use of the chemical And restrictions on use
Recommended use Lubricant
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 Aerosols	Category 1
Serious Eye damage/eye irritation	Category 2A
Hazardous to aquatic environment, acute hazard	Category 2
Hazardous to aquatic environment, long-term hazard	Category 2
Specific target organ toxicity, single exposure	Category 3 narcotic effects

Label elements

Emergency Overview

Danger

Hazard statements

Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Appearance Clear **Physical state** Liquid **Odor** Alcohol

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. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye/face protection.

Response
If inhaled: Remove individual to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and able to do so. Continue rinsing. Call poison center or physician if you feel unwell. If eye irritation persists: Get medical advice/attention. Collect spillage.

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

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

Hazard(s) not otherwise classified (HNOC)
Not classified.

Supplemental information
48.41% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 48.41% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Acetone	67-64-1	40-60	*
Butane	106-97-8	10-20	*
Petroleum distillates, hydrotreated light	64742-47-8	2.5-10	*
Propane	74-98-6	2.5-10	*
Other components below reportable levels	-	20-40	*

*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 and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continuing rinsing. If eye irritation persist: Get medical advice / attention.

Inhalation Remove individual to fresh air and keep at rest in a position comfortable for breathing. Call a poison control or physician if you feel unwell.

Ingestion In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Most important symptoms and effects, both acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep individual under observation. Symptoms may be delayed. Ensure the medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Powder. Foam. Water fog. Carbon Dioxide.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the 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
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed space, SCBA. If there is no risk, move containers from fire area. 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 container from fire area if it can be done without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion no not breathe fumes.

General fire hazards
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 Keep out of low areas. Wear appropriate protective equipment. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing mist or vapor. Ventilate closed spaces before entering them. Local authorities should be advised in significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Environmental precautions

Environmental precautions Avoid release into the environment. Contact local authorities in case of spillage to drain/ aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Move the container to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, oil, paper, etc.) away from spilled material. Stop leak if you ca do so without risk.

Methods for cleaning up Move the container to a safe and open are if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Flush area with water, after product has been cleaned.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Keep away from heat, sparks, flame and other sources of ignition. Do not spray on naked flame or any other incandescent material. Equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not re-use empty containers. Use only in ventilated areas. Avoid breathing in vapor or mist. Avoid contact with eyes. Avoid prolonged exposure. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid release into environment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Pressurized container. Do not puncture, incinerate or crush. Do not handle or store near flame, heat and sources of ignition. Avoid exposure to direct sunlight, exceeding 50°C/122°F. This material can accumulate static charge which may cause spark and become an ignition source. Level 2 Aerosol

Incompatible materials Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No Exposure limits noted for ingredient(s).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	PEL: 2400 mg/m3 PEL: 1000 ppm	TWA: 590 mg/m3 TWA: 250 ppm
Propane 74-98-6	-	PEL: 1800 mg/m3 PEL: 1000 ppm	TWA: 1800 mg/m3 TWA: 1000 ppm
Butane 106-97-8	STEL: 1000 ppm	-	TWA: 1900 mg/m3 TWA: 800 ppm

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls Good general 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.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses are recommended or chemical proof goggles when working with chemicals.

Skin and body protection Wear chemical resistant gloves.

Respiratory protection	None needed for proper use in accordance with label directions. If recommended exposure limits are exceeded wear a NIOSH approved respirator, following manufacturer's instructions.
General Hygiene	When using do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoothing. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Clear to light yellow
Odor	Alcohol

Property	Values	Remarks • Method
pH	No Information available.	
Specific Gravity	0.784 estimated	
Percent volatile	72.34%	
Viscosity	No Information available.	
Melting point/freezing point	No Information available.	
Flash point	-156.0°F (104.4°C) estimated	
Boiling point and Boiling range	150.53°F (65.85°C) estimated	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Upper flammability limit:	No information available.	
Lower flammability limit:	No information available.	
Vapor pressure	30.93 psig @70F estimated	
Vapor density	No Information available.	
Relative density	0.784 g/cm3 estimated	
Water solubility	No information available.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition temperature	No information available.	
VOC (weight %)	24.5% estimated	

10. STABILITY AND REACTIVITY

Reactivity
This product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability
Material is stable at normal conditions.

Possibility of Hazardous Reactions
Hazardous polymerization does not occur.

Conditions to avoid
Avoid temperatures exceeding the flash point. Avoid heat, spark, open flames and other ignition sources. Avoid contact with Incompatible materials: strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Hazardous Decomposition Products
No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause dizziness or drowsiness. Headache. Nausea. Vomiting. Narcotic effects. Prolonged inhalation may be harmful.
Eye contact	May cause serious eye irritation.
Skin Contact	May cause irritation to the skin.
Ingestion	Smallest quantities reaching the lungs through swallowing or subsequent vomiting may results in lung edema or pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death. Irritation of nose and throat. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Causes serious eye irritation and skin irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea or vomiting. May cause central nervous system effects.

Information on toxicological effects

Acute toxicity Narcotic effects. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Chemical Name	Dermal LD50	Oral LD540	Inhalation LC50
Butane 106-97-8	-	-	1355 mg/l (Rat)
Acetone 67-64-1	7426 mg/kg, 24 hours (Rabbit) >9.4 ml/kg, 24 hours (Rabbit)	5800 mg/kg (Rat) 2.2 ml/kg (Rat)	55700 ppm, 3 hours (Rat) 132 mg/l, 3 hours (Rat) 50.1 mg/l (Rat)
Petroleum distillates, hydro-treated light 64742-47-8	>2000 mg/kg (Rabbit) >2000 mg/kg, 24 hours (Rabbit)	>5000 mg/kg (Rat)	>7.5 mg/l, 6 hours (Rat) >4.3 mg/l, 4 hours (Rat) >0.1 mg/l, 8 hours (Rat)
Propane 74-98-6	-	-	1355 mg/l (Rat) 658 mg/l, 4 hours (Rat)

*Estimates for product may be based on additional component data not shown.

Skin/Eye irritation	Causes mild skin irritation and serious eye irritation.
Sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No information available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
Reproductive toxicity	No expected to cause reproductive or developmental effects.
STOT - single exposure	Narcotic effects. May cause drowsiness and dizziness.
STOT - repeated exposure	No Information available.
Target organ effects	Central Vascular System (CVS), EYES, Respiratory system, Skin.
Aspiration hazard	No information available.
Chronic effects	Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life with long lasting effect.

Persistence and degradability
No Information available.

Bioaccumulation
No Information available.

Chemical Name	Partition coefficient
Acetone 67-64-1	-0.24
Propane 74-98-6	2.36
Butane 106-97-8	2.89

Other adverse effects No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warning potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Collect or dispose in sealed containers and licensed waste disposal site. Contents under pressure. Do no puncture or incinerate. Do not drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference Acetone (67-64-1) U002

Waste from residues/unused products Dispose 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. (See Disposal Instructions).

Contaminated packaging Do not reuse container.

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
Proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Label(s)	2.1

IATA

UN/ID No.	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Label(s)	2.1

IMDG

UN/ID No.	UN1950
Proper shipping name	Aerosols, flammable
Transport hazard class	2.1
Label(s)	2.1

Environmental Class

Marine Pollutant	Yes.

15. REGULATORY INFORMATION

International Inventories

United States, Canada, Puerto Rico-Yes*
Australia, Europe, Japan, Korea and Philippines-No

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory-Yes
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List-No

*A Yes indicates that all components of this product comply with the inventory requirements administered by the governing county(s). A No indicates that one or more components of the product are no listed or exempt from listing on the inventory administered by the governing country(s).

US Federal Regulations

Superfund Amendments and Reauthorization Act of 1986

Acute health hazard	Yes
Delayed hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

SARA 313 (TRI reporting)

1,4-Dioxane (123-91-1) 0.01-0.1% of weight
Ethylene Oxide (75-21-8) 0.01-0.1% of weight
Propylene Oxide (75-56-9) 0.01-0.1% of weight

SARA 302 Extremely hazardous substance

Ethylene Oxide (75-21-8) – Reportable quantity – 10 Threshold planning quantity – 1000lbs
Propylene Oxide (75-56-9) – Reportable quantity – 100 Threshold planning quantity – 10000lbs

CERCLA

This material, as supplied, does contain a substance regulated 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) Listed.

CAA (Clean Air Act) Section 112 Hazardous Air Pollutants (HAPs) List – Not regulated.
CAA (Clean Air Act) Section 112(r) Accidental Release Prevention (40 CFR 68.130) – Butane (106-97-8)\
SDWA (Safe Drinking Water Act) – Not Regulated.
DEA (Drug Enforcement Administration). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number – Acetone (67-64-1-1) 6532
DEA, List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) – Acetone (67-64-1) 35% WV
DEA, Exempt Chemical Mixtures Code Number – Acetone (67-64-1) 6532

US State Regulations

California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US-California Proposition 65-CRT: Listed carcinogenic substance – 1,4-Dioxane (123-91-1), Ethylene Oxide (75-21-8), Propylene Oxide (75-56-9)
US-California Proposition 65-CRT: Listed developmental toxin – Ethylene Oxide (75-21-8)
US-California Proposition 65-CRT:Listed female reproductive toxin – Ethylene Oxide (75-21-8)
US-California Proposition 65-CRT: Listed male reproductive toxin – Ethylene Oxide (75-21-8)

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey-Rhode Island	Massachusetts	Pennsylvania
Butane 106-97-8	X	X	X
Propane 74-98-6	X	X	X
Acetone 67-64-1	X	X	X

16. OTHER INFORMATION

NFPA	**Health hazards** 1	**Flammability** 3	**Instability** 0		**Physical and Chemical Properties** Yes		
HMIS	**Health hazards** 1	**Flammability** 3	**Physical hazards** 0		**Personal protection** B		

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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