

Issue Date: 02-Sep-2015

Revision Date: 19-Nov-2018

Version 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name United 305 KRYSTAL KLEAR

Other means of identification

SDS # UNITED-305

UN/ID No UN1230

Recommended use of the chemical and restrictions on use

Recommended Use Windshield washer fluid.

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 (24 hr) INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Clear blue liquid

Physical State Liquid

Odor Mild odor

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation	Category 3
Specific target organ toxicity (single exposure)	Category 1
Flammable Liquids	Category 2

Signal Word

Danger

Hazard Statements

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs. Highly flammable liquid and vapor.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep cool.

Precautionary Statements - Response

IF EXPOSED: Call a POISON CENTER or doctor/physician.

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 advice/attention.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a poison center or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction.

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container in accordance to local, national and regional regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Methanol	67-56-1	60-100

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Flush with plenty of tepid water for at least 15 minutes, lifting upper and lower lids occasionally. Call a physician or poison control center immediately.
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If irritation persists, call a physician or poison control center.
Inhalation	Remove to fresh air immediately. Give oxygen or CPR if needed. Call a physician or poison control center immediately.
Ingestion	Induce vomiting only under the direction of a physician. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most important symptoms and effects

Symptoms	Causes serious eye irritation. Causes damage to organs. Vapors in high concentrations may irritate the mucous membranes. May cause drowsiness and dizziness. May cause blindness if swallowed. Toxic if inhaled. Toxic if swallowed. May cause skin irritation.
-----------------	---

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically. Effect may be delayed. Pre-existing skin, eye and respiratory disorders may be aggravated by exposure to this product.
---------------------------	---

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO₂). Alcohol-resistant foam. Water spray (fog).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Water may reduce intensity of burning, but may also spread the burning mixture. Heat may cause containers to pressurize and burst, greatly increasing the fire hazard. Methanol burns with an invisible flame. Vapors are heavier than air and may travel to a source of ignition and flash back. Flammable liquid and vapor.

Hazardous Combustion Products Vapor forms an explosive mixture with air.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear if there is liquid methanol or if vapor levels are above the threshold limit value. Flames may be invisible during the day. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible firefighters should control runoff water to prevent environmental contamination.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Environmental Precautions Do not flush to sewer. Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Cover drains and contain spill. Recover liquid where possible, or dilute with water or use alcohol-resistant foam to reduce fire hazard. Clean contaminated area with soap and water.

Methods for Clean-Up Do not use combustible material such as sawdust. Collect product using non-sparking tools and place into approved container for proper disposal. Observe material restrictions. Clean contaminated area with soap and water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Wash face, hands, and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Wear protective gloves/protective clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep containers tightly closed when not in use. Store in a cool, dry, secure area away from sources of ignition. Storage area should be ventilated if possible. Keep away from oxidizers, acids and bases. Keep out of the reach of children.

Incompatible Materials Avoid strong oxidizing materials, strong mineral or organic acids, strong bases and halogenated hydrocarbons. May be corrosive to lead, aluminum, magnesium and platinum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methanol 67-56-1	STEL: 250 ppm TWA: 200 ppm Skin designation	TWA: 200 ppm TWA: 250 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³ Skin designation

Appropriate engineering controls

Engineering Controls

Use only with adequate ventilation to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment. Refer to Section 7 of this SDS.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Safety glasses with side shields or goggles are recommended.

Skin and Body Protection

Chemical resistant gloves are recommended. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Respiratory Protection

Always use an approved respirator when vapor/aerosols are generated. If the respirator is the sole means of protection, use a full-face supplied respirator. Use respirators and components tested and approved under appropriate government standards as NIOSH.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Facilities storing or using this material should be equipped with an eyewash station and safety shower. Preventative skin protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mild odor
Appearance	Clear blue liquid	Odor Threshold	Not determined
Color	Clear blue		
Property	Values	Remarks • Method	
pH	Not determined		
Melting Point/Freezing Point	-98 °C / -144 °F		
Boiling Point/Boiling Range	64.5 °C / 148.1 °F		
Flash Point	10.5 °C / 51 °F	TCC	
Evaporation Rate	5.9	(n-BuAc=1)	
Flammability (Solid, Gas)	Liquid-Not applicable		
Upper Flammability Limits	36.5%		
Lower Flammability Limit	6.0%		
Vapor Pressure	97.0 mm Hg @ 20°C		
Vapor Density	1.11	(Air=1)	
Specific Gravity	0.791	(Water = 1)	
Water Solubility	Completely soluble		
Solubility in other solvents	Yes		
Partition Coefficient	-0.82/-0.66	n-octanol/water	
Auto-ignition Temperature	455°C (851°F)		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		

Explosive Properties	Not determined
Oxidizing Properties	Not determined
VOC Content	90-100

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Vapors may form explosive mixture with air. Reacts with strong oxidizing agents and halogenated hydrocarbons. Avoid excessive heat and sources of ignition. The substance decomposes on burning and may produce irritating fumes.

Conditions to Avoid

Excessive heat and fire. Incompatible Materials. Avoid confined areas.

Incompatible Materials

Avoid contact with strong oxidizing agents, strong mineral or organic acids, strong bases and halogenated hydrocarbons. Contact with these may cause a violent or explosive reaction. May be corrosive to lead, aluminum, magnesium and platinum.

Hazardous Decomposition Products

Thermal decomposition products include oxides of carbon, formic acid, formaldehyde and other toxic fumes and gases.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes eye irritation.
Skin Contact	May causes skin irritation.
Inhalation	Toxic if inhaled. Irritating to the respiratory system. May cause drowsiness and dizziness.
Ingestion	Toxic if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methanol 67-56-1	= 1187-2769 mg/kg (Rat)	= 17100 mg/kg (Rabbit)	= 85.26 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms	Please see section 4 of this SDS for symptoms.
-----------------	--

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

Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, NTP and ACGIH.
STOT - single exposure	May cause drowsiness or dizziness.
STOT - repeated exposure	Material is slowly eliminated from the body; therefore, it can have cumulative toxicity effects with repeated exposure. Methanol is a potential hazard to the fetus.
General information	Handle in accordance with good industrial hygiene and safety practice.

Numerical measures of toxicity

Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Methanol is dangerous to aquatic life in high concentrations. A study of methanol's toxic effects on sewage sludge bacteria reported little effect on digestion at 0.1% while 0.5% methanol retarded digestion. Methanol will be broken down into carbon dioxide and water.

Persistence/Degradability

Methanol is readily biodegradable in water.

Bioaccumulation

Methanol is not expected to bioaccumulate as the partition coefficient is <1.

Mobility

Mobility in soil is high.

Other Adverse Effects

Do not allow material to run into surface waters, waste water or soil.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal of surplus and non-recyclable products should be in accordance with applicable regional, national and local laws and regulations. Empty containers or liners may retain some product residues.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

US EPA Waste Number

Chemical Name	RCRA U-Series
Methanol 67-56-1	Methanol 67-56-1 Waste Number: U154 Ignitable waste

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Methanol 67-56-1	Toxic Ignitable

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	UN1230
Proper Shipping Name	Methanol
Hazard Class	3
Subsidiary Hazard Class	None
Packing Group	II

IATA

UN/ID No	UN1230
Proper Shipping Name	Methanol
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

IMDG

UN/ID No	UN1230
Proper Shipping Name	Methanol
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II
Marine Pollutant	No

15. REGULATORY INFORMATION**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Methanol	Present	X		Present		Present	X	Present	X	X

Legend:*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances**AICS - Australian Inventory of Chemical Substances***US Federal Regulations****CERCLA**

Chemical Name	RQ
Methanol 67-56-1	2268 kg 5000 lbs

SARA 302/304 Extremely Hazardous Substance and Emergency Planning & Notification

This product does not exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methanol - 67-56-1	67-56-1	60-100	1.0

CAA (Clean Air Act)

Methanol (67-56-1) is listed as a Hazardous Air Pollutants designated in CAA Section 112 (b).

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant or hazardous substances to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Methanol - 67-56-1	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methanol 67-56-1	X	X	X

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	1	3	0	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2*	3	0	H

Chronic Hazard Star Legend

* = Chronic Health Hazard

Issue Date: 02-Sep-2015

Revision Date: 19-Nov-2018

Revision Note: Revised

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