

SAFETY DATA SHEET

1. Identification

Identification

Product name: ULTRALUBE IIC

Additional identification

Chemical name: Mixture

Recommended use and restriction on use

Recommended use: Drilling
Restrictions on use: None identified.

Details of the supplier of the safety data sheet

Supplier

Company Name: Triple Point Chemical Inc.
Address: 909 17th Ave SW
4th Floor
CALGARY, ALBERTA, T2T 0A4
CA
Telephone: (403) 466-1803

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL (403) 466-1803

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Inhalation - vapor)	Category 4
Acute toxicity (Inhalation - dust and mist)	Category 4
Skin sensitizer	Category 1
Carcinogenicity	Category 1B
Specific Target Organ Toxicity - Repeated Exposure	Category 2
Aspiration Hazard	Category 1

Unknown toxicity

Acute toxicity, oral	0.0 %
Acute toxicity, dermal	0.0 %
Acute toxicity, inhalation, vapor	96.7 %
Acute toxicity, inhalation, dust or mist	23.2 %

Label Elements:

Hazard Symbol:



Signal Word: Danger

Hazard Statement: May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
Harmful if inhaled.
May cause cancer.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Prevention: Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust or mists.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see this label). Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None identified.

3. Composition/information on ingredients

Chemical name	CAS number	Percent by Weight
Petroleum distillates	64741-43-1	60 - 70%
Proprietary fatty amidoamine	Confidential	10 - 20%
Butyl cellosolve	111-76-2	1 - 5%
++ Polycyclic Aromatic hydrocarbons	130498-29-2	5 - 10%

++ The listed components are subcomponents of the hazardous ingredients listed above.

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret by a vendor.
Vendor HMIRA Registration #: 9690, Registration Grant Date: 12/02/2016

4. First-aid measures

General information:	Get medical advice/attention if you feel unwell.
Ingestion:	Do NOT induce vomiting. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration. Rinse mouth. Immediately call a POISON CENTER/doctor.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact:	Take off contaminated clothing and wash before re-use. Wash skin thoroughly with soap and water. If skin irritation or rash occurs: Get medical attention. Launder contaminated clothing before reuse.
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing.

Most important symptoms/effects, acute and delayed

Symptoms: Symptoms may be delayed.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media:	CO ₂ , dry chemical, foam, water spray, water fog.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up: Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

Environmental Precautions: Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. Use only in well-ventilated areas. Use personal protective equipment as required. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse. Avoid environmental contamination.

Maximum Handling Temperature: Not determined.

Conditions for safe storage, including any incompatibilities: Store away from incompatible materials. See section 10 for incompatible materials.

Maximum Storage Temperature: Not determined.

8. Exposure controls/personal protection

Control Parameters:

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Petroleum distillates - Inhalable fraction.	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (03 2014)
Butyl cellosolve	TWA	20 ppm	US. ACGIH Threshold Limit Values (02 2012)
Butyl cellosolve	REL	5 ppm 24 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Butyl cellosolve	PEL	50 ppm 240 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Biological Limit Values

Chemical name	Exposure Limit Values	Source
Butyl cellosolve (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEI (03 2013)

Appropriate engineering controls: No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
Eye/face protection:	If contact is likely, safety glasses with side shields are recommended.
Skin Protection	
Hand Protection:	Suitable gloves can be recommended by the glove supplier.
Other:	Chemical resistant boots. Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.
Respiratory Protection:	Use respirator with a combination organic vapor and dust/mist cartridge. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Hygiene measures:	Observe good industrial hygiene practices. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Amber
Odor:	Hydrocarbon
Odor threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	> 203 °F (95 °C) (Pensky-Martens Closed Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.

Relative density:	0.8932 68 °F (20 °C)
Solubility(ies)	
Solubility in water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Not determined.
Incompatible Materials:	Alkalies.
Hazardous Decomposition Products:	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	Harmful if inhaled.
Ingestion:	No data available.
Skin Contact:	Causes mild skin irritation.
Eye contact:	No data available.

Information on toxicological effects

Acute toxicity

Oral

Product:	ATEmix > 10,000 mg/kg. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Ingestion can cause central nervous system effects such as headache, dizziness, drowsiness, and generalized weakness. Ingestion may cause red blood cell hemolysis and possible liver and kidney injury.
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Dermal

Product:	ATEmix > 5,000 mg/kg
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Inhalation

Product:	ATEmix (, 4 h): 10 - 20 mg/l. Vapour ATEmix (, 4 h): 2 - 5 mg/l. Dusts, mists and fumes High concentrations may cause headaches, dizziness, nausea,
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behavioral changes, weakness, drowsiness and stupor. High concentrations may cause headaches, dizziness, weakness, irritability and other behavioral changes, nausea, and vomiting.

Skin Corrosion/Irritation:

Product: Causes mild skin irritation.
Remarks: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

Skin sensitization:

Petroleum distillates Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.
Proprietary fatty amidoamine Classification: Skin sensitizer (Literature) Skin sensitizer
Remarks: Category 1B
Butyl cellosolve Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.

Specific Target Organ Toxicity - Single Exposure:

Product: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

Petroleum distillates May cause irritation to the mucous membranes and upper respiratory tract.

Butyl cellosolve Nose, throat and lung irritant.

Aspiration Hazard:

Product: May be fatal if swallowed and enters airways.

Other effects:

Butyl cellosolve Central nervous system

Chronic Effects

Carcinogenicity:

Product: Not available.

++ Polycyclic Aromatic hydrocarbons May cause cancer.
Contains polynuclear aromatic hydrocarbons similar to those which have been shown to cause cancer in laboratory animals by oral, dermal and inhalation exposure.

Butyl cellosolve Butyl cellosolve: A National Toxicology Program (NTP) chronic inhalation study revealed some evidence of carcinogenic activity in male and female mice, equivocal evidence in female rats. and no evidence in male rats.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity:

Butyl cellosolve

This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

Reproductive toxicity:

Butyl cellosolve

Based on available data this product is not expected to be classified a reproductive hazard. Butyl cellosolve causes fetotoxicity in lab animals at doses which are maternally toxic.

Specific Target Organ Toxicity - Repeated Exposure:

Petroleum distillates

Unknown: Target Organ(s): bone marrow, Liver

Butyl cellosolve

Repeated overexposure may result in liver and kidney damage.
Dermal: Target Organ(s): Blood
Inhalation: Target Organ(s): Blood
Oral: Target Organ(s): Blood

12. Ecological information

Ecotoxicity

Fish

Petroleum distillates

LC 50 (Rainbow Trout, 4 d): 21 mg/l

Proprietary fatty amidoamine

LC 50 (Zebra Fish, 4 Days): > 100 mg/l

Butyl cellosolve

LC 50 (Bluegill Sunfish, 4 d): 1,490 mg/l
LC 50 (Rainbow Trout, 4 d): 1,471 mg/l
LC 50 (Zebra Fish, 21 d): > 100 mg/l
NOEC (Zebra Fish, 21 d): > 100 mg/l

Aquatic Invertebrates

Petroleum distillates

EC 50 (Water flea (Daphnia magna), 2 d): 68 mg/l

Butyl cellosolve

EC 50 (Water flea (Daphnia magna), 2 d): 1,550 mg/l
EC 50 (Water flea (Daphnia magna), 21 d): 297 mg/l
NOEC (Water flea (Daphnia magna), 21 d): 100 mg/l

Toxicity to Aquatic Plants

Petroleum distillates

EC 50 (Alga, 3 d): 10 mg/l

Butyl cellosolve

EC 50 (Green algae (Selenastrum capricornutum), 3 d): 911 mg/l
EC 50 (Green algae (Selenastrum capricornutum), 7 d): > 1,000 mg/l
NOEC (Green algae (Selenastrum capricornutum), 3 d): 88 mg/l

Toxicity to soil dwelling organisms

No data available

Sediment Toxicity

No data available

Toxicity to Terrestrial Plants

No data available

Toxicity to Above-Ground Organisms

No data available

Toxicity to microorganisms

Butyl cellosolve

EC 50 (Sludge, 0.1 d): > 1,000 mg/l

Persistence and Degradability

Biodegradation

Petroleum distillates

OECD TG 301 F, 57.5 %, 28 d, Not readily degradable.

Proprietary fatty amidoamine

OECD TG 301 D, 2.7 %, 28 d, Not readily degradable.

Butyl cellosolve

OECD TG 302 B, 100 %, 28 d, Readily biodegradable

OECD TG 301 E, 95 %, 28 d, Readily biodegradable

OECD TG 301 B, 90.4 %, 28 d, Readily biodegradable

Bioaccumulative potential

Bioconcentration Factor (BCF)

No data available

Partition Coefficient n-octanol / water (log Kow)

Butyl cellosolve

Log Kow: 0.81 (Measured)

Mobility:

No data available

Other adverse effects:

No data available.

13. Disposal considerations

Disposal instructions:

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

Contaminated Packaging:

Container packaging may exhibit hazards.

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

TDG

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

The DOT shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based the size of the package. Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. During transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4)

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 311 Classifications

Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>CAS number</u>	<u>Percent by Weight</u>	<u>Reportable quantity</u>
Polycyclic Aromatic hydrocarbons	130498-29-2	8.6 %	*See regulation for further details
Butyl cellosolve	111-76-2	2.2 %	*See regulation for further details

*These specific chemicals are not listed please check the generic entries on the SARA 304 listings for applicability.

SARA 313 (TRI Reporting)

<u>Chemical Identity</u>	<u>CAS number</u>	<u>Percent by Weight</u>	<u>Reporting threshold for other uses</u>	<u>Reporting threshold for manufacturing and processing</u>
Polycyclic Aromatic hydrocarbons	130498-29-2	8.6 %	100 lbs	
Butyl cellosolve	111-76-2	2.2 %	10000 lbs	25000 lbs

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

Inventory Status

Australia (AICS)

This product contains a substance that is not listed on the Australia Inventory of Chemical Substances.

Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACH)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)

This product contains a substance that is not listed on the Japanese Existing and New Chemical Substances (ENCS) list.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

This product requires notification before sale in New Zealand.

Philippines (PICCS)

May require notification before sale under Philippines Republic Act 6969.

Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

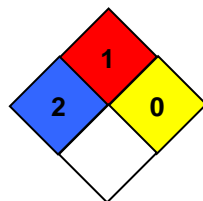
16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	*	2
Flammability	1	
Physical Hazards	0	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



	Flammability
	Health
	Reactivity
	Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 02/02/2017

Version #:	1.0
Source of information:	Internal company data and other publically available resources.
Further Information:	Contact supplier (see Section 1)
Disclaimer:	As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.