

SAFETY DATA SHEET

CHRISTO-LUBE™ MCG 117

SDS according to the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200), Revision 2012

Section 1. Identification			
Product code	: 016282-01		
Product name	: CHRISTO-LUBE™ MCG 117		
Other means of identification	: Not available.		
Relevant identified uses o	f the substance or mixture and uses advised against		
Relevant uses	: Lubricating grease		
Uses advised against	: Any other purpose.		
Supplier	: Engineered Custom Lubricants 3851 Exchange Avenue Aurora, IL 60504 USA 1-630-449-5000		
	ProductStewardship@quakerhoughton.com www.quakerhoughton.com		
Emergency telephone number (with hours of operation)	: CHEMTREC US/Canada:1-800-424-9300 or 1-703-527-3887 (24 hours)		

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	<u>5</u>
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.

Section 2. Hazards identification

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
propylene carbonate	≤3	108-32-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 4. First aid measures

Description of necessary first aid measures

General advice	: Get medical attention if symptoms occur. If medical advice is needed, have product container or label at hand. Use personal protective equipment as required. Remove contaminated clothing and wash it before reuse. Wash skin surfaces thoroughly after contact.
Inhalation	: Move affected person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.
Skin contact	: Brush off loose particles from skin. Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse.
Eye contact	: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do.
Ingestion	: Ingestion may cause gastrointestinal irritation and diarrhea. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Most important symptoms a	ind effects, both acute and delayed
Inhalation	: Not expected under normal use.
Skin contact	: Not expected under normal use.
Eye contact	: Not expected under normal use.
Ingestion	: Not expected under normal use.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Use personal protective equipment as required.

Section 5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable extinguishing media	 Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO₂, water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: In a fire, hazardous decomposition products may be produced. carbon oxides (CO, CO ₂) nitrogen oxides halogenated compounds Hydrogen fluoride (HF).
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8). Keep unnecessary personnel away.		
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
Environmental precautions	: Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Do not allow any potentially contaminated water, including rain water, runoff from fire fighting or spills, to enter any waterway, sewer or drain.		
Methods and materials for co	ntainment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		

Section 7. Handling and storage

Precautions for safe handling

- **Protective measures**
- : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not breathe dust. Do not ingest.

Section 7. Handling and storage

Advice on general	:	Eating, drinking and smoking should be prohibited in areas where this material is
occupational hygiene	•	handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Storage temperature	:	Store between the following temperatures: 4 to 40°C (39.2 to 104°F).
Shelf life	:	5 years

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
propylene carbonate	None.	

Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	es
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Keep equipment clean.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Other skin protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use. Use appropriate respiratory protection if there is a risk of exceeding any exposure limits.

Section 8. Exposure controls/personal protection

Thermal hazards

: Not expected under normal use. Not relevant/applicable due to nature of the product.

Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	: Solid. [grease]		
Color	: Light Brown.		
Odor	: Odorles	SS.	
Odor threshold	: Not ava	ilable.	
рН	: Not ava	ilable.	
Melting point	: Not ava	ilable.	
Boiling point	: >35°C ((>95°F)	
Flash point	: Open cup: >60°C (>140°F)		
Evaporation rate	: Not available.		
Flammability (solid, gas)	: Not available.		
Lower and upper explosive (flammable) limits	: Not applicable.		
Vapor pressure	: Not available.		
Vapor density	: Not applicable.		
Density	: 1.9 g/cm ³ [25°C (77°F)]		
Solubility	:		
Media		Result	
cold water	Not soluble		
Partition coefficient: n- octanol/water	: Not app	blicable.	
Auto-ignition temperature	: Not applicable.		
Decomposition temperature	e : Not available.		
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)		
Particle characteristics			

Median particle size

: Not available.

Section 10. Stability and reactivity				
Reactivity	: No specific test data related to reactivity available for this product or its ingredi			
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardou	is reactions will not occur.		
Conditions to avoid	: When exposed to high temperatures may produce haz	ardous decomposition products.		
Incompatible materials	: Strong oxidizing materials. strong acids. strong alkalis. Metal powder.	Incompatible with alkali metals		
Date of issue/Date of revision	: 13 June 2022	Version : 1 5/1		

Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Not available.

Numerical measures of toxicity

Product/ingredient name	Result		Species		Dos	e	Exposure
propylene carbonate	LD50 Dermal LD50 Oral		Rabbit Rat			0 mg/kg - 0 mg/kg -	-
Irritation/Corrosion	: Based on available data, th	ne clas	sification	criteria	are no	ot met.	
Product/ingredient name	Result	Spec	ies	Score		Exposure	Observation
propylene carbonate	Eyes - Moderate irritant Skin - Moderate irritant	Rabb Huma		-		60 mg 72 hours 100 mg I	-
	Skin - Moderate irritant	Rabb	it	-		500 mg	-
Sensitization	: Based on available data, th	ne clas	sification	criteria	are no	ot met.	
Mutagenicity	: Based on available data, th	ne clas	sification	criteria	are no	ot met.	
Carcinogenicity	: Based on available data, the classification criteria are not met.						
Reproductive toxicity	: Based on available data, th	ne clas	sification	criteria	are no	ot met.	
Specific target organ toxicit	y (single exposure) : Bas	ed on	available	data, th	ne clas	sification criter	ria are not met.
Specific target organ toxicit exposure)	y (repeated : Bas	ed on	available	data, th	ne clas	sification criter	ia are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.						
Other information	: None identified.						
formation on the likely rout	<u>es of exposure</u>						
Inhalation	: No known significant effects or critical hazards.						
Skin contact	: No known significant effects or critical hazards.						
Eye contact	: No known significant effects or critical hazards.						

Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

None identified.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	lot expected un	der normal use.
Skin contact	lot expected un	der normal use.
Eye contact	lot expected un	der normal use.
Ingestion	lot expected un	der normal use.

Section 12. Ecological information

This material is harmful to aquatic life.

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
propylene carbonate	Acute EC50 >900 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 >1000 mg/l Acute LC50 5300 mg/l	Daphnia - Daphnia magna Fish - Leuciscus idus	48 hours 96 hours

Persistence and degradability

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
propylene carbonate	-0.41	-	low

Mobility in soil

Soil/water partition: Not available.coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Empty containers retain product residue and can be hazardous. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

Section 14. Transport information

DOT Classification	: <u>Reportable quantity</u> Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments	: Not available.

Section 15. Regulatory information

U.S. Federal regulations

Toxic Substances Control Act (TSCA)

TSCA 5(a)2 final significant new use rules: sodium nitrite

Clean Water Act (CWA) 311

Ingredient name	CAS number
sodium nitrite	7632-00-0

Clean Water Act (CWA) 307

None of the components are listed.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

None of the components are listed.

CERCLA: Hazardous substances.

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Reportable quantity : sodium nitrite: 100 lbs. (45.4 kg);

SARA 302/304

None of the components are listed.

SARA 311/312

Classification : See GHS Classification in section 2 for hazard class information

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

State regulations	
Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: The following components are listed: ETHENE, TETRAFLUORO-, HOMOPOLYMER
California	
<u>California Prop. 65</u>	

016282-01

Section 15. Regulatory information

Ingredient name	Concentration	
Silica, crystalline	Trace	Cancer

SCAQMD Rule 1144

This product has not been tested for VOC content by the ASTM E-1868-10 (2021) method and is not approved for sale or distribution in the SCAQM District of California if the product is used as a metal forming, metal removal, metal treating, metal protection fluid

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States	: All components are active or exempted.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.

Section 16. Other information

Date of issue/Date of revision	: 6/13/2022
Version	: 1
	Quaker Houghton Product Stewardship
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations VOC = Volatile Organic Compound
Poforonooo	
References	: Safety data sheets of raw materials, global regulatory body information, scientific literature, and testing data .
— • • • • • • •	

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

This product's safety information is provided to assist our customers in assessing compliance with safety/health/ environmental regulations. The information contained herein is based on data available to us and is correct to the best of our knowledge, information and belief at the date of its publication. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.