

Material Safety Data Sheet

Innovation and Experience at Work

CHRISTO-LUBE[®] MCG 157

1.	Substance, Preparation, and Co					
	Material Uses	Lubricant, Grease, Industrial applications				
		Engineered Custom Lubricants (ECL)				
	Manufacturer	3851 Exchange Ave.				
		Aurora, IL 60504				
		630-449-5000				
	Product Code	CHRISTO-LUBE MCG 157				
	Validation Date	January 7, 2014				
	In case of emergency contact	1-630-449-5000				
2.	Hazards Identification					
		Emergency Overview				
	Physical State	Semi-solid, grease				
	Color	White				
	Odor	Nearly odorless				
	Hazard Statements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.				
	OSHA/HCS Status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.				
	Routes of Entry	Dermal contact. Eye contact. Ingestion				
		Potential acute health effects				
	Inhalation	No known significant effects or critical hazards.				
	Ingestion	No known significant effects or critical hazards.				
	Skin	No known significant effects or critical hazards.				
	Eyes	No known significant effects or critical hazards.				
	P	otential chronic health effects				
	Chronic effects	No known significant effects or critical hazards.				
	Carcinogenicity	No known significant effects or critical hazards.				
	Mutagenicity	No known significant effects or critical hazards.				
	Teratogenicity	No known significant effects or critical hazards.				
	Fertility effects	No known significant effects or critical hazards.				
	Developmental effects	No known significant effects or critical hazards.				
	0	ver-exposure signs/symptoms				
	Inhalation	No specific data				
	Ingestion	No specific data				

	Skin	No specific data				
	Eyes	No specific data				
	Medical conditions aggravated by over- exposure	None known				
З.	Composition/Component Data					
	Name	CAS Number EINECS Number %				
	No Haz	ardous or Reportable Ingredients				
4.	First Aid Measures					
	Eye ContactCheck for and remove any contact lenses. ImmediateEye Contactwith plenty of water for at least 15 minutes, occasiupper and lower eyelids. Get medical attention if syn					
	Skin Contact	In case of contact, immediately flush skin with plenty of water for a least 15 minutes while removing contaminated clothing and shoes Wash clothing before reuse. Get medical attention if symptom occur.				
	Inhalation	Move exposed person to fresh air. If not breathing, if breathing irregular or if respiratory arrest occurs, provide artificial respiratio or oxygen by trained personnel. Loosen tight clothing such as collar, tie, belt, or waistband. Get medical attention if symptom occur.				
	Ingestion	Wash out mouth with water. Do not induce vomiting unless direct to do so my medical personnel. Never give anything by mouth to unconscious person. Get medical attention if symptoms occur.				
	Protection for first-aiders	No action shall be taken involving any personal risk or wit suitable training.				
	Note to Physician	No specific treatment. Treat symptomatically. Contact poiso treatment specialist immediately if large quantities have been ingested or inhaled.				
5.	Firefighting Measures					
<u>J.</u>	Suitable Extinguishing Media	Dry Chemical, CO ₂ , Foam. or Water Fog				
	Special Exposure Hazards	Promptly isolate the scene by removing all persons from the vicinit of the incident if there is a fire. No action shall be taken involvin any personal risk or without suitable training.				
	Hazardous thermal decomposition products	Burning may produce gaseous hydrogen fluoride (HF) Fluorophosgene				
	Special protective equipment for firefighters	Fire-fighters should wear protective equipment and self-containe breathing apparatus (SCBA) with a full face-piece operated i positive pressure mode.				
6.	Accidental Release Measures					
	Personal Precautions	No action shall be taken involving any personal risk or withou suitable training. Evacuate surrounding areas. Keep unnecessal and unprotected personnel from entering. Do not touch or wal through spilled material. Put on appropriate personal protection equipment (see Section 8).				
	Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways soil, or air).				

	Small spill: Move containers from spill area. Vacuum or sweet material and place in a designated, labeled waste conta Dispose of via a licensed waste disposal contractor.Methods for Clean upLarge spill: Move containers from spill area. Prevent entry sewers, water courses, basements, or confined areas. Vacuu sweep up material and place in a designated, labeled vacuu sweep up material and place in a designated, labeled vacuu sweep up material and place in a designated, labeled vacuu sweep up material and place in a designated, labeled vacuu sweep up material and place in a designated, labeled vacuu source container. Dispose of via a licensed waste disposal contra Note: See section 1 for emergency contact information and sec 13 for waste disposal.				beled waste container. Intractor. area. Prevent entry into offined areas. Vacuum or signated, labeled waste ste disposal contractor.		
7.	Handling and Stor	200					
	Handling		Put on appropriate personal protection equipment (see section 8 Eating, drinking, and smoking should be prohibited in areas when this material is handled, stored, and processed. Workers shou wash hands and face before eating, drinking, and smoking Remove contaminated clothing and protective equipment before entering eating areas.				
	Storage		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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.				
8,	Exposure Limits a	nd Personal Prote	ective Equipment				
			United States				
		Occ: Ingredient	upational Exposure	Limits Exposure Lir	nits		
		Ingredient					
		0	Canada cupational Exposure Limits				
	Ingredient	List Name	TWA (8 Hours)	STEL (15 mins)	Ceiling		
			Mexico				
			upational Exposure Limits				
		Ingredient		Exposure Lir	nits		
			I				
	Recommended Monitoring Procedures		If this product contains ingredients with exposure limits, personal, workplace, atmosphere, or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.				
	Engineering Measures	5	No specific ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.				
Hygiene Measures Wash hands, forearms and face thoroughly after hand products, before eating, smoking or using the lavato end of the working period. Appropriate techniques sh to remove potentially contaminated clothing. Wash clothing before reusing. Ensure that eyewash station showers are close to the workstation location.				the lavatory and at the chniques should be used ng. Wash contaminated vash stations and safety			

	F	Personal Protection				
	Respiratory	 Use properly fitted, air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. 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. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposures to liquid splashes, mists, or dusts. Personal protection 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. 				
	Hands					
	Eyes					
	Skin					
	Environmental Exposure Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements or 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.				
9.	Physical and Chemical Properties					
0.	Physical State	Semi-solid, grease				
	Flash Point	Not Available				
	Auto-ignition Temperature	Not Available				
	Flammable Limits	Not Available				
	Color	White				
	Odor	Nearly odorless				
	pH	Not Available				
	Boiling/condensation Point	Not Available				
	Melting/freezing Point	Not Available				
	Density	1.8-2.0 g/cm ³				
	Vapor Pressure	Not Available				
	Vapor Density	Not Available				
	Volatility	Not Available				
	Evaporation Data	Not Available				
	Viscosity	Not Available				
	Dispensability Properties	Not Available				
	Solubility	Insoluble in the following materials: hot and cold water				
	Physical/chemical Properties Comments	Not Available				
10.	Stability and reactivity					
	Chemical Stability	The product is stable				
	Conditions to avoid	No specific data				
	Incompatible Materials	No specific data				
	Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition product should not be produced.				
	Possibility of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.				

Product/Ingredient Name	Result	Species	Dose	Exposure		
		anada				
Product/Ingredient Name	Result	Species	Dose	Exposure		
		lexico				
Product/Ingredient Name	Result	Species	Dose	Dose Exposure		
Chronic Toxicity		ted or prolonged expo tory tract irritation.	sure to spray or	mist may produc		
		No known significant eff	ects or critical haza	ards.		
	Eyes: N	No known significant eff	ects or critical haza	ards.		
Irritation/Corrosion		-				
	produce	atory: Repeated or pro e respiratory tract irritat	ion.			
	Skin:	No specific information	on is available r			
Sensitizer	human	zing properties of this p s.	IDUUCT. SENSITIZATIO	on not expected i		
	Pospir	atory: Sonsitization not	ovposted for hum			
Carcinogenicity	There	atory: Sensitization not is no data on the pl				
		suspected for humans. There is no data on the preparation itself. Mutagenicity no				
Mutagenicity	suspec	ted for humans.		. .		
Teratogenicity		There is no data on the preparation itself. Teratogenicity no suspected for humans.				
Reproductive Toxicity	There	is no data on the pre	paration itself. Not	t considered to		
	danger	ous to humans.				
Ecological Data						
Ecotoxicity		adily biodegradable				
	Unite	ed States				
Aquatic Ecotoxicity		There is no data available on the preparation itself This product has not been tested for biodegradation. Not readi				
Persistence/Degradability	biodegi	radable. This product	is not expected			
1	through	through food chains in the environment.				
	Ca	anada				
Aquatic Ecotoxicity		s no data available on t				
Persistence/Degradability	This product has not been tested for biodegradation. biodegradable. This product is not expected to bio					
through food chains in the environment. Mexico						
Aquatic Ecotoxicity	There i	s no data available on t	he preparation itse	lf		
	This pr	roduct has not been te	ested for biodegra	dation. Not read		
Persistence/Degradability		radable. This product n food chains in the env		to bioacculuma		

Waste Disposal			The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should no be disposed of via the foul sewer but processed in a suitabl effluent treatment plant. Dispose of surplus and non-recyclabl products via a licensed waste disposal contractor. Disposal of thi product, solutions, and any by-products should at all times compl with the requirement of environmental protection and wast disposal legislation and any regional or local authority requirements Waste packaging should be recycled. Incineration or landfill shoul only be considered when recycling is not feasible. This material an it's container must be disposed of in a safe way. Empty container or liners may contain some product residues. Avoid dispersal of spilled material and run-off and contact with soil, waterways, drains						
	Disposal she	ould be in acc	cordance with	and sewers. applicable regional, national, and local laws and regulations					
					ORAGE and Section 8: EXPOSURE LIMITS AND PERSONAL ional handling information and protection of employees.				
	PROTEC		NENT for addit	lonal handli	ing informat	ion and prote	ection of em	ployees.	
14.	Transportation	n Informati	on						
Infor	ulatory rmation Classification	UN Number Not	Proper Ship	oing Name	Classes	Packing Group	Label	Additional Information	
001	Classification	Regulated							
	Classification	Not Regulated							
Mexico Classification Not									
Mexi	ico Classification								
ADR	/RID Class	Not Regulated Not Regulated							
ADR		Not Regulated Not							
ADR IMD(/RID Class	Not Regulated Not Regulated Not							
ADR	/RID Class G Class	Not Regulated Not Regulated Not Regulated Not							
ADR IMD(/RID Class G Class	Not Regulated Not Regulated Not Regulated Regulated							
ADR IMD(/RID Class G Class A-DGR Class	Not Regulated Not Regulated Not Regulated Regulated		United S	States				
ADR IMD(/RID Class G Class A-DGR Class <i>Regulatory Int</i> HSC Classificatio	Not Regulated Not Regulated Not Regulated Not Regulated		Not Regula	ated				
ADR IMD(/RID Class G Class A-DGR Class <i>Regulatory Int</i> HSC Classificatio TSCA 8(a) IUR Ex	Not Regulated Not Regulated Not Regulated Regulated		Not Regula Not Determ	nted nined				
ADR IMD(/RID Class G Class A-DGR Class <i>Regulatory Int</i> HSC Classificatio	Not Regulated Not Regulated Not Regulated Not Regulated	A 8b)	Not Regula Not Determ	ated	ed or exempt			

SARA 313: No listed substances

Air Pollutants (HAP'S)

	Product Name	CAS Number	Concentration %			
Form R Reporting						
Requirements						
Supplier Notification						
Canada						
		Canada				
WHMIS (Canada)	No	Canada t controlled under WHMIS (C	anada)			

	CEPA Toxic Substances	None of the components are listed				
	Canada Inventory	ory All components are listed or exempted				
		Mexico				
	Classification	0 1 0 Health: 1 Flammability: 0 Reactivity: 0				
16.	Other Information					
	Labeling Requirements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED				
	Hazardous Material Information System (USA)	HEALTH FLAMMABILITY REACTIVITY PERSONAL PROTECTION	1 0 0 B	HMIS Ratings are based on a 0-4 scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.		
	The customer is responsibl	le for determining the PPE code for this material.				
	Date of Issue	January 7, 2014				
	Version	1				
	Changes from Previous Version	N/A				
	Prepared by:	ECL Research and Developr	nent Depai	rtment		
	Inditions of use and suitability of the by the user and WE EXPRESSLY NTABILITY AND FITNESS FOR A priate warnings and safe handling eered Custom Lubricants assumes cial Engineered Custom Lubricants formulas contained in this document					