

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel 440C

Material Uses	Lubricant, Grease, Industrial applications
Waterial Oses	Engineered Custom Lubricants (ECL)
	3851 Exchange Ave.
Manufacturer	Aurora, IL 60504
	630-449-5000
Product Code	TriboGel 440C
Validation Date	January 30, 2015
In case of emergency co	ntact 1-630-449-5000
Hazards Identification	· · ·
	Emergency Overview
Physical State	Semi-solid, grease
Color	White to off-white
Odor	Mild petroleum odor
Hazard Statements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECT WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
	While this material is not considered hazardous by the OSHA
	Hazard Communication Standard (29 CFR 1910.1200), this MSD
OSHA/HCS Status	contains valuable information critical to the safe handling an
	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.
	Potential 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.
	Over-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	No	ne known			
3.	Composition/Component Data					
	Name		CAS Number	EINECS Number	%	
	No Haza	rdous	s or Reportable Ingred	lients		
4.	First Aid Measures					
	Eye Contact	witl upp	h plenty of water for a per and lower eyelids.	any contact lenses. Immo at least 15 minutes, occ Get medical attention if s	asionally lifting the symptoms occur.	
	Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.				
	Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms occur.				
	Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so my medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.				
	Protection for first-aiders	No action shall be taken involving any personal risk or without suitable training.				
	Note to Physician	trea		Treat symptomatically mediately if large quar		
5.	Firefighting Measures					
J.	Suitable Extinguishing Media	Dr۱	Chemical, CO _{2,} Foan	n. or Water Fog		
	Special Exposure Hazards	Promptly isolate the scene by removing all persons from the vic of the incident if there is a fire. No action shall be taken involvany personal risk or without suitable training.				
	Hazardous thermal decomposition products	Burning may produce carbon more formaldehyde, as well as small amounts		small amounts of other t	noxide, carbon dioxide,	
	Special protective equipment for firefighters	Fire-fighters should wear protective equipment and self-cont breathing apparatus (SCBA) with a full face-piece operation positive pressure mode.				
6.	Accidental Release Measures	<u> </u>				
	Personal Precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protection equipment (see Section 8).				

	Environmental Precautions		waterways, drains, a				
	Methods for Clean up		Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Large spill: 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. Note: See section 1 for emergency contact information and section 13 for waste disposal.				
7.	Handling and Sto	rage					
	Handling		Eating, drinking, and this material is har wash hands and Remove contamina entering eating area	d smoking should be pondled, stored, and proof face before eating, of ted clothing and protess.	uipment (see section 8). rohibited in areas where ressed. Workers should drinking, and smoking. rective equipment before		
	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	and Personal Prote	ectivo Equipment				
0.	Lxposure Limits 6	and reisonal riole	United States				
			upational Exposure L		-14 -		
	Ingredient			Exposure Lin	nits		
		•	Canada	imite			
	Ingredient	•	Canada upational Exposure L TWA (8 Hours)	imits STEL (15 mins)	Ceiling		
	Ingredient	Occi	Ipational Exposure L TWA (8 Hours)		Ceiling		
	Ingredient	Occu List Name	upational Exposure L TWA (8 Hours) Mexico	STEL (15 mins)	Ceiling		
	Ingredient	Occu List Name	Ipational Exposure L TWA (8 Hours)	STEL (15 mins)			
	Ingredient	Occu	upational Exposure L TWA (8 Hours) Mexico	STEL (15 mins)			
	Ingredient Recommended Monit	Occu List Name Occu Ingredient	Mexico upational Exposure L Mexico upational Exposure L If this product conta workplace, atmosph determine the effe	imits Exposure Lin ains ingredients with exere, or biological monitoriveness of the vent			

	Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking or using the lavatory and at the end of the working period. 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.
	P	ersonal 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.
	Hands	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.
	Eyes	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.
	Skin	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.
	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	
	Physical State	Semi-solid, grease
	Flash Point	Not Available
	Auto-ignition Temperature Flammable Limits	Not Available Not Available
	Color	White to off-white
	Odor	Mild petroleum odor
	pH	Not Available
	рп Boiling/condensation Point	Not Available Not Available
	Melting/freezing Point	Not Available Not Available
	Density	0.89 g/cm ³
	Vapor Pressure	Not Available
	Vapor Pressure 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.
4.4	Tavianiani Data	
11.	Toxicological Data	

	Acute Toxicity: None known United States					
	Product/Ingredient Name	Result	Species	Dose	Exposure	
	Canada					
	Product/Ingredient Name	Result	Species	Dose	Exposure	
	Product/Ingredient Name	Mesult	exico Species	Dose	Exposure	
	1 Toddourigiodicine Haine	Noodit	Оросисс		ZAPOGGIO	
	Chronic Toxicity		ed or prolonged expory tract irritation.	osure to spray or	mist may produ	
			o known significant ef	fects or critical haza	ards.	
	Irritation/Corrosion	Eyes: N	lo known significant e	ffects or critical haza	ards.	
			atory: Repeated or pr		spray or mist m	
			e respiratory tract irrita No specific informat		egarding the s	
	Sensitizer	sensitizi	ing properties of this			
	OCHOINEC!	humans.				
ļ	Carcinogenicity	There i	Respiratory: Sensitization not expected for humans. There is no data on the preparation itself. Carcinogenicity no suspected for humans. There is no data on the preparation itself. Mutagenicity no			
	Mutagenicity	suspected for humans. There is no data on the preparation itself. Teratogenicity suspected for humans. There is no data on the preparation itself. Not considered to the preparation itself.				
	Teratogenicity				5 ,	
	Reproductive Toxicity		s no data on the propus to humans.	eparation itself. No	t considered to	
	Ecological Data					
	Ecotoxicity	Not read	dily biodegradable			
		Unite	d States			
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability	biodegra	oduct has not been adable. This produc	t is not expected		
		through	food chains in the en	vironment.		
			ınada			
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability	This product has not been tested for biodegradation. Not read biodegradable. This product is not expected to bioacculumathrough food chains in the environment.				
		· -	exico			
	Aquatic Ecotoxicity	There is	s no data available on	the preparation itse	If	
•	Persistence/Degradability	This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioacculumate through food chains in the environment.				
	Disposal Considerations					

Waste Disposal

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions, and any by-products should at all times comply with the requirement of environmental protection and waste disposal legislation and any regional or local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and it's container must be disposed of in a safe way. Empty containers or liners may contain some product residues. Avoid dispersal of spilled material and run-off and contact with soil, waterways, drains, and sewers.

Disposal should be in accordance with applicable regional, national, and local laws and regulations Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE LIMITS AND PERSONAL PROTECTIVE EQUIPMENT for additional handling information and protection of employees.

14. Transportation Information

Regulatory	UN	Proper Shipping Name	Classes	Packing	Label	Additional
Information	Number			Group		Information
DOT Classification	Not					
	Regulated					
TDG Classification	Not					
	Regulated					
Mexico Classification	Not					
	Regulated					
ADR/RID Class	Not					
	Regulated					
IMDG Class	Not					
	Regulated					
IATA-DGR Class	Not					
	Regulated					

15. Regulatory Information

United States				
HSC Classification	Not Regulated			
TSCA 8(a) IUR Exempt/Partial Exemption	Not Determined			
United States Inventory (TSCA 8b)	All components are listed or exempt			
Clean Air Act Section 112(b) – Hazardous Air Pollutants (HAP'S)	Not listed			

SARA 313: No listed substances

	Product Name	CAS Number	Concentration %
Form R Reporting			
Requirements			
Supplier Notification			

Canada				
WHMIS (Canada)	Not controlled under WHMIS (Canada)			
Canadian NPRI	None of the components are listed			

	Mexico					
	Classification	Health: 1 Flammability: 1 Reactivity: 0				
40	04 1-1					
16.	Other Information					
	Labeling Requirements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED				
				7		
		HEALTH	1	HMIS Ratings are based		
	Harandana Matarial Information Cretom	FLAMMABILITY	1	on a 0-4 scale, with 0		
	Hazardous Material Information System (USA)	REACTIVITY	0	representing minimal hazards or risks, and 4		
	(OUA)	PERSONAL PROTECTION	В	representing significant hazards or risks.		
	The customer is responsible	sible for determining the PPE code for this material.				
	Date of Issue	January 30, 2015	ode for till	io material.		
	Version	2				
	Changes from Previous Version	Yes				
	Prepared by:		ECL Research and Development Department			

None of the components are listed

All components are listed or exempted

CEPA Toxic Substances

Canada Inventory

Notice to reader: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Engineered Custom Lubricants assumes no responsibility for accuracy of information unless the document is the most current available from an official Engineered Custom Lubricants source. Engineered Custom Lubricants neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.