

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel 870-0

1.	Substance, Preparation, and Company Description				
	Material Uses	Lubricant, Grease, Industrial applications			
		Engineered Custom Lubricants (ECL)			
	Manufacturer	3851 Exchange Ave.			
	Wallulacturei	Aurora, IL 60504			
		630-449-5000			
Product Code		TriboGel 870-0			
	Validation Date	January 30, 2015			
	In case of emergency contact	1-630-449-5000			
2.	Hazards Identification				
		Emergency Overview			
	Physical State	Semi-solid, grease			
	Color	Yellow to green			
	Odor	Sulfur odor			
	Hazard Statements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS 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 MSDS			
	OSHA/HCS Status	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.			
		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	No	ne known				
3.	Composition/Component Data	Composition/Component Data					
	Name		CAS Number	EINECS Number	%		
		ardous	s or Reportable Ingred	lients			
4.	First Aid Measures						
	Eye Contact	wit upp	h plenty of water for a per and lower eyelids.	ny contact lenses. Imme 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 p least 15 minutes while removing contaminated Wash clothing before reuse. Get medical atte occur. Move exposed person to fresh air. If not breat irregular or if respiratory arrest occurs, provide or oxygen by trained personnel. Loosen tight collar, tie, belt, or waistband. Get medical atte occur.		emoving contaminated c	ush skin with plenty of water for at contaminated clothing and shoes. et medical attention if symptoms nir. If not breathing, if breathing is occurs, provide artificial respiration Loosen tight clothing such as a		
	Inhalation			arrest occurs, provide a prsonnel. Loosen tight c			
	Ingestion	Wash out mouth with water. Do not induce vomiting unless directe to do so my medical personnel. Never give anything by mouth to a unconscious person. Get medical attention if symptoms occur.					
	Protection for first-aiders	No sui	No action shall be taken involving any personal risk or without suitable training.				
	Note to Physician	trea			omatically. Contact poison irge quantities have been		
5.	Firefighting Measures						
0.	Suitable Extinguishing Media	Dry	/ Chemical, CO _{2,} Foan	n. or Water Fog			
	Special Exposure Hazards	 Promptly isolate the scene by removing all persons from the of the incident if there is a fire. No action shall be taken in any personal risk or without suitable training. 					
	Hazardous thermal decomposition products	for	maldehyde, as well as	e carbon monoxide, small amounts of other t	oxic fumes.		
	Special protective equipment for firefighters	Fire-fighters should wear protective equipme breathing apparatus (SCBA) with a full fa positive pressure mode.					
6.	Accidental Release Measures						
0.	Personal Precautions	No action shall be taken involving any personal risk or witho suitable training. Evacuate surrounding areas. Keep unnecessa and unprotected personnel from entering. Do not touch or wa through spilled material. Put on appropriate personal protection equipment (see Section 8).		Keep unnecessary not touch or walk			

	Environmental Preca	utions	waterways, product has	drains, a	nd sewers. Inform the r	off and contact with soil, relevant authorities if the on (sewers, waterways,
	Methods for Clean up		 soil, or air). 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. 			beled waste container. htractor. htrae. Prevent entry into fined areas. Vacuum or ignated, labeled waste ste disposal contractor.
7.	Handling and Stor	rage				
	Handling		Eating, drin this materia wash hanc	king, and al is hand Is and f ontaminat	smoking should be pr dled, stored, and proc ace before eating, c ed clothing and prote	ipment (see section 8). ohibited in areas where essed. Workers should drinking, and smoking. ctive equipment before
	Storage		Store in accordance with local regulations. Store in origin container protected from direct sunlight in a dry, cool, and we ventilated area, away from incompatible materials (see section 1 and food and drink. Keep container tightly closed and sealed un ready for use. Containers that have been opened must be careful resealed and kept upright to prevent leakage. Do not store unlabeled containers. Use appropriate containment to avo environmental contamination.		a dry, cool, and well- aterials (see section 10) closed and sealed until pened must be carefully akage. Do not store in	
8.	Exposure Limits a	and Personal Prote		nmont		
0.			United S			
			upational Exp	osure Li	mits Exposure Lin	-14-
		Ingredient				
			Canad	da.		
		Осси	upational Exp		mits	
	Ingredient	List Name	TWA (8 H		STEL (15 mins)	Ceiling
			Mexic			
		Occu Ingredient	upational Exp	osure Li	mits Exposure Lin	aite
		ingredient				1115
	Recommended Monitoring Procedures Engineering Measures		workplace, determine measures equipment.	atmosphe the effec and/or t	ere, or biological monito ctiveness of the venti he necessity to use	posure limits, personal, pring may be required to lation or other control respiratory protective
			should be	sufficier		ood general ventilation exposure to airborne predients with exposure

Hygiene Measures 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 reyewash stations and safety showers are close to the workstation location. Personal Protection Use properly fitted, air-purfying 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. Safety eysware complying with an approved standard should be approved by aspecialist before handling this product. Eyes Safety eysware complying with an approved standard should be approved by aspecialist before handling this product. Environmental Exposure Controls Emissions from ventilation or work process equipment should be equipment will be necessary to reduce emissions to acceptable levels. 9. Physical and Chemical Properties Physical and Chemical Properties Not Available Flash Point Not Available Flash Point Not Available Flash point Not Available Vapor Density Not Available						
Use properly fitted, air-purifying or air for 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 eyewarc 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 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 venk process equipment should be checked to ensure they comply with the requirements or environmental protection legislation. In some cases, fune 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 Not Available Polor Sulfur cdor pH Not Available Mething/reczing Point Not Available Vapor Pressure Not Available			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.			
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Hands 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 splateness, mists, or dusts. Skin Personal protection equipment for the body should be selected exposures to liquid splateness, mists, or dusts. Fersonal protection equipment for the body should be selected assed 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 should be levels. 9. Physical and Chemical Properties Physical State Semi-solid, grease Flash Point Not Available Auto-ignition Temperature Not Available Color Yellow to green Odor Sulfur odor pH Not Available Metting/freezing Point Not Available Metting/freezing Point Not Available Vapor Pensity Not Available Vapor Pensity Not Available Vapor Pensity Not Ava			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.			
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		Hazardous Decomposition Products	decomposition product should not be produced.			
		Possibility of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.			

11.	Toxicological Data						
Acute Toxicity: None known							
	Product/Ingredient Name	Result	ed States Species	Dose	Exposure		
	Product/Ingredient Name	Result	anada Species	Dose	Exposure		
	Product/Ingredient Name	Result	Exposure				
	Chronic Toxicity	Repea	ted or prolonged exp	osure to spray or	mist may produc		
			tory tract irritation. No known significant ef	fects or critical haza	ards.		
	Irritation/Corrosion	Eyes:	No known significant e	ffects or critical haza	ards.		
			atory: Repeated or pro		o spray or mist ma		
		Skin:	e respiratory tract irrita No specific informat	ion is available r			
	Sensitizer	sensitiz human	zing properties of this s.	product. Sensitizatio	on not expected for		
		Respir	atory: Sensitization no	ot expected for hum	ans.		
	Carcinogenicity	suspec	ted for humans.	•	paration itself. Carcinogenicity no		
	Mutagenicity	suspec	ted for humans.				
	Teratogenicity	suspec	is no data on the cted for humans.				
	Reproductive Toxicity		is no data on the pre ous to humans.	eparation itself. No	t considered to b		
12.	Ecological Data						
	Ecotoxicity		adily biodegradable				
			ed States				
	Aquatic Ecotoxicity Persistence/Degradability	This p biodeg	is no data available on roduct has not been radable. This produc n food chains in the en	tested for biodegra t is not expected	dation. Not readil		
			anada				
	Aquatic Ecotoxicity		is no data available on				
	Persistence/Degradability	This product has not been tested for bio biodegradable. This product is not exp through food chains in the environment.		t is not expected			
		Ν	lexico				
	Aquatic Ecotoxicity		is no data available on				
	Persistence/Degradability	This p biodeg	roduct has not been radable. This produc n food chains in the en	tested for biodegra t is not expected	dation. Not readil		

13.	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 Information	UN Number	Proper Shipping Name	Classes	Packing Group	Label	Additional 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	S (Canada)		
	Canadian NPRI	None of the components are	elisted		
	CEPA Toxic Substances	None of the components are	e listed		
	Canada Inventory	All components are listed or exempted			
		Mexico			
	Classification	Health: 1 Flammability: 1 Reactivity: 0			
16.	Other Information				
10.		NOT EXPECTED TO PROD	DUCE SIGNIFICANT ADVERSE		
	Labeling Requirements	HEALTH EFFECTS WHEN	THE RECOMMENDED		
	Hazardous Material Information System (USA)	HEALTH FLAMMABILITY REACTIVITY PERSONAL PROTECTION	1HMIS Ratings are base1on a 0-4 scale, with 00representing minimal0hazards or risks, and 4Bhazards or risks.		
	The customer is responsible	e for determining the PPE co	ode for this material.		
	Date of Issue	January 30, 2015			
	Version	2			
	Changes from Previous Version	Yes			
	Prepared by:	ECL Research and Developr	ment Department		
	product for particular uses are beyond our control; all ris DISCLAIM ALL WARRANTIES OF EVERY KIND AND NA PARTICULAR PURPOSE IN RESPECT TO THE USE procedures should be provided to handlers and users. Alte no responsibility for accuracy of information unless the do	ered in good faith as accurate, but without guarantee. Conditions of use and suitability of the all risks of use of the product are therefore assumed by the user and WE EXPRESSLY ND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A USE OR SUITABILITY OF THE PRODUCT. Appropriate warnings and safe handling s. Alteration of this document is strictly prohibited. Engineered Custom Lubricants assumes the document is the most current available from an official Engineered Custom Lubricants esents nor warrants that the format, content or product formulas contained in this document United States of America.			