

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel 874VLF-B

1.	Substance, Preparation, and C	Substance, Preparation, and Company Description			
	Material Uses	Lubricant, Grease, Industrial applications			
		Engineered Custom Lubricants (ECL)			
	Manufacturar	3851 Exchange Ave.			
	Manufacturer	Aurora, IL 60504			
		630-449-5000			
	Product Code	TriboGel 874VLF-B			
	Validation Date	February 2, 2015			
	In case of emergency contact	1-630-449-5000			
2.	Hazards Identification				
		Emergency Overview			
	Physical State	Semi-solid, grease			
	Color	Black			
	Odor	Mild petroleum odor			
	Hazard Statements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.			
OSI	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 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-		ne known			
	exposure					
_						
3.	Composition/Component Data					
			0404	EINEOG N	T 0/	
	Name		CAS Number	EINECS Number	%	
	1					
	No Haza	ardous	s or Reportable Ingred	ients		
4.	First Aid Measures					
				ny contact lenses. Imme		
	Eye Contact			at least 15 minutes, occ		
				Get medical attention if s		
				diately flush skin with ple		
	Skin Contact		least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms			
			occur.			
			Move exposed person to fresh air. If not breathing, if breathing is			
	lub alation		irregular or if respiratory arrest occurs, provide artificial respiration			
	Inhalation		or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms			
			occur. 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. No action shall be taken involving any personal risk or without			
	Ingestion					
	Protection for first-aiders		suitable training.			
			No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been			
	Note to Physician					
		ing	ested or inhaled.			
_	Fine fine time Management					
5.	Firefighting Measures Suitable Extinguishing Media	D=	Chamical CO Face	or Water Eag		
	Suitable Extinguishing Media		Chemical, CO _{2,} Foan	n. or water Fog ne by removing all person	ns from the vicinity	
	Special Exposure Hazards			a fire. No action shall		
		any	personal risk or withou	out suitable training.		
	Hazardous thermal decomposition			carbon monoxide,		
	products			small amounts of other t		
	Special protective equipment for			r protective equipment a CBA) with a full face- _l		
	firefighters		sitive pressure mode.	סטה) with a full face-ן		
6.	Accidental Release Measures					
				en involving any person		
	Personal Precautions			ate surrounding areas. In nel from entering. Do i		
	i Gradiai Fiedaulidila			nei from entening. Do i . Put on appropriate p		
			uipment (see Section 8		2.30a. protootion	

	Environmental Precau	utions	waterways, drains,	and sewers. Inform the	off and contact with soil, relevant authorities if the ion (sewers, waterways,
	Methods for Clean up		Small spill: Move material and place Dispose of via a lice Large spill: Move sewers, water coursweep up material container. Dispose	ee in a designated, la ensed waste disposal containers from spill reses, basements, or corroll and place in a desert of via a licensed was for emergency contact.	ea. Vacuum or sweep up abeled waste container. ontractor. area. Prevent entry into offined areas. Vacuum or signated, labeled waste aste disposal contractor. t information and section
7.	Handling and Stor	rage			
	Handling		Eating, drinking, are this material is ha wash hands and	nd smoking should be p indled, stored, and pro- face before eating, ated clothing and prote	uipment (see section 8). Prohibited in areas where cessed. Workers should drinking, and smoking. Pective equipment before
	Storage		container protected ventilated area, aw and food and drink ready for use. Con resealed and kep	d from direct sunlight in vay from incompatible made. Keep container tightly tainers that have been of t upright to prevent le ers. Use appropriate	tions. Store in original n a dry, cool, and well- naterials (see section 10) or closed and sealed until opened must be carefully akage. Do not store in containment to avoid
8.	Exposure Limits a	and Personal Prote	_ ective Equipment	<u> </u>	
			United States		
		Ingredient Occ	upational Exposure	Limits Exposure Lii	nits
			Canada		
	Ingredient	List Name	tupational Exposure TWA (8 Hours)	STEL (15 mins)	Ceiling
			Mexico		
	Occu Ingredient		upational Exposure	Limits Exposure Lii	nits
		Ingredient		Exposure En	IIII.S
	Recommended Monit	oring Procedures	workplace, atmosp determine the eff	here, or biological monit ectiveness of the ven	xposure limits, personal, coring may be required to tilation or other control e respiratory protective
	Engineering Measure	s	No specific ventil should be suffici contaminants. If the	ent to control worker his product contains in	ood general ventilation exposure to airborne gredients with exposure aust ventilation or other

	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
		Use properly fitted, air-purifying or air fed respirator complying with
	Respiratory	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.
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9.	Physical and Chemical Properties	
	Physical State	Semi-solid, grease
	Flash Point	Not Available
	Auto-ignition Temperature	Not Available
	Flammable Limits	Not Available
	Color	Black
	Odor	Mild petroleum odor
	рН	Not Available
	Boiling/condensation Point	Not Available
	Melting/freezing Point	Not Available
	Density	0.9 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
	-	Under normal conditions of storage and use, hazardous
	Hazardous Decomposition Products	decomposition product should not be produced. Under normal conditions of storage and use, hazardous reactions
	Possibility of Hazardous Reactions	will not occur.

11.	Toxicological Data				
	Acute Toxicity: None known United States				
	Product/Ingredient Name	Result	Species	Dose	Exposure
	-				
		Ca	anada		
	Product/Ingredient Name	Result	Species	Dose	Exposure
			exico	1	
	Product/Ingredient Name	Result	Species	Dose	Exposure
		F _			
	Chronic Toxicity		ed or prolonged exp ory tract irritation.	osure to spray or	mist may produce
			o known significant e	ffects or critical haza	ards.
		Fves: N	lo known significant e	ffects or critical haza	ards
	Irritation/Corrosion		-		
			atory: Repeated or pre- e respiratory tract irrita		spray or mist may
		Skin:	No specific informa	tion is available re	
	Sensitizer	sensitiz humans	ing properties of this	product. Sensitization	on not expected for
	Sensitizer	Tiumans	•		
			atory: Sensitization no		
	Carcinogenicity	There is no data on the preparation itself. Carcinogous suspected for humans. There is no data on the preparation itself. Mutage suspected for humans. There is no data on the preparation itself. Teratogous formula in the preparation itself.		•	0 ,
	Mutagenicity			Mutagenicity not	
	Teratogenicity			Teratogenicity not	
			ed for humans. s no data on the pr	oparation itself. Not	t considered to be
	Reproductive Toxicity		ous to humans.	eparation itsell. Not	considered to be
40	Factoriaal Data				
12.	Ecological Data Not readily biodegradable United States				
	Agustia Esstavisity			ı f	
	Aquatic Ecotoxicity		oduct has not been		
	Persistence/Degradability	biodegr	adable. This produc	t is not expected	
			food chains in the en	vironment.	
		Canada			
	Aquatic Ecotoxicity		s no data available on oduct has not been		
	Persistence/Degradability	biodegr	adable. This produc	t is not expected	
		through	food chains in the en	vironment.	
		Me	exico		
	Aquatic Ecotoxicity		no data available on		
	Persistence/Degradability		oduct has not been adable. This produc		
			food chains in the en		

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 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

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
	HSC Classification TSCA 8(a) IUR Exempt/Partial Exemption United States Inventory (TSCA 8b) Clean Air Act Section 112(b) – Hazardous

SARA 313: No listed substances

Regulated

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

		Canada			
	WHMIS (Canada)	Not controlled under WHMIS (Canada)			
	Canadian NPRI	None of the components are listed			
	CEPA Toxic Substances	None of the components are listed			
	Canada Inventory	All components are listed or exempted			
	Mexico				
	Classification	Health: 1 Flammability: 1 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 1 FLAMMABILITY 1 REACTIVITY 0 PERSONAL PROTECTION 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 responsible for determining the PPE code for this material.				
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ľ	Version	2			
ļ	Changes from Previous Version	Yes			
ŀ	Prepared by:	ECL Research and Development Department			

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