

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel 408B

1.	Substance, Preparation, and Company Description		
	Material Uses	Lubricant, Grease, Industrial applications	
		Engineered Custom Lubricants (ECL)	
	Manufacturer	3851 Exchange Ave.	
		Aurora, IL 60504	
		630-449-5000	
	Product Code	TriboGel 408B	
	Validation Date	January 30, 2015	
	In case of emergency contact	1-630-449-5000	
2.	Hazards Identification		
		mergency 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.	
	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.	
	Potent	ial 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-ex	kposure 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	140	IIC KIIOWII			
	- CAPOCATO					
3.	Composition/Component Data					
0.						
	Name		CAS Number	EINECS Number	%	
	¥1.					
	No Haz	ordou	s or Reportable Ingred	lionto		
	INOTIAZA	aruous	s of Reportable Higher	ilet its		
4.	First Aid Massures					
4.	First Aid Measures	Ch	ack for and ramava s	any contact langua Imm	adiataly fluab ayea	
	Eye Contact			any contact lenses. Immat least 15 minutes, occ		
	Lyc Johnson			Get medical attention if s		
		In (case of contact, imme	ediately flush skin with ple	enty of water for at	
	Skin Contact	lea	st 15 minutes while re	emoving contaminated c	lothing and shoes.	
	Okin Contact		_	euse. Get medical atte	ntion if symptoms	
		000		o fresh air. If not breath	ing if broathing is	
				arrest occurs, provide		
	Inhalation			ersonnel. Loosen tight o		
				tband. Get medical atte		
		occ				
	Ingestion	Wash out mouth with water. Do not induce vomiting unless direct to do so my medical personnel. Never give anything by mouth to				
	Ingestion	line	do so my medical per conscious person. Get	medical attention if sym	ntoms occur	
		No	action shall be take	en involving any persor	nal risk or without	
	Protection for first-aiders		table training.			
				Treat symptomatically		
	Note to Physician	treatment specialist immediately if large quantities have been		ntities have been		
		ıng	ested or inhaled.			
	Eirofighting Mossures					
5.	Firefighting Measures Suitable Extinguishing Media	Dr	Chemical, CO ₂ Foar	n or Water Foo		
	Suitable Extiliguisilling Media				ns from the vicinity	
	Special Exposure Hazards	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.				
	Hazardous thermal decomposition	Burning may produce carbon monoxide, carbon dioxide,				
	products			small amounts of other		
	Special protective equipment for			r protective equipment CBA) with a full face-		
	firefighters		sitive pressure mode.	CDA) WILL a TUIL TACE-	piece operated in	
		1	procede mode.			
6.	Accidental Release Measures					
	- I - I - I - I - I - I - I - I - I - I	No	action shall be take	en involving any persor	nal risk or without	
		sui	table training. Evacua	ate surrounding areas.	Keep unnecessary	
	Personal Precautions			nel from entering. Do		
				. Put on appropriate p	ersonal protection	
		equ	ipment (see Section 8	equipment (see Section 8).		

	Environmental Precau	utions	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).			
	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 Stor	age :				
	Handling		Eating, drinking, and this material is had wash hands and	id smoking should be p ndled, stored, and prod face before eating, ated clothing and prote	uipment (see section 8). rohibited in areas where cessed. Workers should drinking, and smoking. ective 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 a	and Personal Prote	⊥ ective Equipment			
			United States			
		Ingredient Occ	upational Exposure Limits Exposure Limits			
			Canada			
	Ingredient	Occ List Name	upational Exposure I TWA (8 Hours)	_imits STEL (15 mins)	Ceiling	
	iligiedient	List Name	TWA (o flours)	STEE (13 IIIII3)	Centrig	
			Mexico			
			upational Exposure l			
	Ingredient			Exposure Lir	nits	
			I			
	Recommended Monito	oring Procedures	workplace, atmospl determine the effe	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		
	Engineering Measures No specific ventilation requirements. Good general ventilat should be sufficient to control worker exposure to airbor contaminants. If this product contains ingredients with exposulimits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below a recommended or statutory limits.			exposure to airborne gredients with exposure		

	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.		
	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.		
	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.		
_	Dhysical and Chamical Dramartica			
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		
	pH	Not Available		
	Boiling/condensation Point	Not Available		
	Melting/freezing Point	Not Available		
	Density	<1.0 g/cm ³		
	Vapor Pressure	Not Available Not Available		
	Vapor Density	Not Available Not Available		
	Volatility Even pretion Date	Not Available Not Available		
	Evaporation Data Viscosity	Not Available Not Available		
	Dispensability Properties	Not Available Not Available		
	Solubility	Insoluble in the following materials: hot and cold water		
	Physical/chemical Properties Comments	Not Available		
	1 Hysical/chemical i Toperties comments	Not Available		
10.	Stability and reactivity			
70.	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.		
	•	1		

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	
		I _				
	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	Humans).			
			atory: Sensitization no issued in the second			
	Carcinogenicity	suspect	ed for humans.	•		
	Mutagenicity	There is no data on the preparation itself. Mutagenic suspected for humans.			Mutagenicity not	
	Teratogenicity	There	is no data on the	preparation itself.	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						
12.	Ecological Data Ecotoxicity					
	United States					
	Agustia Esstavisity			the proporation item	ı f	
	Aquatic Ecotoxicity		s no data available on oduct has not been			
	Persistence/Degradability	biodegr	biodegradable. This product is not expected to bioacculuma			
			food chains in the en	vironment.		
			nada			
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability	biodegr	This product has not been tested for biodegradation. Not re biodegradable. This product is not expected to bioacculuity			
		through	food chains in the en	vironment.		
		Me	exico			
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability		oduct has not been adable. This produc			
			food chains in the en			

13.	Disposal Considerations				
	Waste Disposal				
	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			
Supplier Notification			

		Canada					
	WHMIS (Canada)	Not controlled under WHMIS (Canada)					
	Canadian NPRI	None of the components are listed None of the components are listed					
	CEPA Toxic Substances						
	Canada Inventory	All components are listed or exempted					
		Mexico	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 FLAMMABILITY REACTIVITY PERSONAL PROTECTION	1 1 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 responsil	ble for determining the PPE	code for th	is material.			
	Date of Issue	January 30, 2015					
	Version	2					
	Changes from Previous Version	Yes					
	Prepared by: ECL Research and Development Department						

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.