

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel 813

1.	Substance, Preparation, and Co	ompany Description		
	Material Uses	Lubricant, Grease, Industrial applications		
		Engineered Custom Lubricants (ECL)		
	Manufacturer	3851 Exchange Ave.		
	Manufacturer	Aurora, IL 60504		
		630-449-5000		
	Product Code	TriboGel 813		
	Validation Date	January 28, 2015		
	In case of emergency contact	1-734-451-2800		
2.	Hazards Identification			
		Emergency Overview		
	Physical State	Semi-solid, grease		
	Color	Black		
	Odor	Mild phosphate 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		
	Devite a st Entre	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.		
		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		ne known				
3.	Composition/Component Data						
	Nama				0/		
	Name		CAS Number	EINECS Number	%		
	No Hazardous or Reportable Ingredients						
4.	First Aid Measures						
				iny contact lenses. Imm			
	Eye Contact			at least 15 minutes, occ			
				Get medical attention if a diately flush skin with pla			
				emoving contaminated c			
	Skin Contact			euse. Get medical atte			
		000					
					eathing, if breathing is		
	Inhalation	irregular or if respiratory arrest occurs, provide artificial res or oxygen by trained personnel. Loosen tight clothing su collar, tie, belt, or waistband. Get medical attention if sy					
		occur.		, , , , , , , , , , , , , , , , , , ,			
			Wash out mouth with water. Do not induce vomiting unless directed				
	Ingestion		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				
	Protection for first-aiders	suitable training.					
		No	specific treatment.	Treat symptomatically	. Contact poison		
	Note to Physician			mediately if large quar	ntities have been		
		ing	ested or inhaled.				
E	Eirofighting Massures						
5.	Firefighting Measures Suitable Extinguishing Media	Dn	Chemical, CO _{2.} Foan	n or Water Fog			
				ne by removing all perso	ns from the vicinity		
	Special Exposure Hazards			a fire. No action shall			
	· · ·	any	any personal risk or without suitable training.				
	Hazardous thermal decomposition			e carbon monoxide,			
	products			small amounts of other t			
	Special protective equipment for			r protective equipment a			
	firefighters	breathing apparatus (SCBA) with a full face-piece positive pressure mode.			sièce operateu in		
6.	Accidental Release Measures	Accidental Release Measures					
		No	action shall be take	en involving any persor	al risk or without		
		suitable training. Evacuate surrounding areas. Keep un					
	Personal Precautions			nel from entering. Do			
			ough spilled material uipment (see Section 8	. Put on appropriate p	ersonal protection		
		equ		<i>י</i> ן <i>י</i>			

	Environmental Preca	 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 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 in a designated, labeled waste container. 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. 				
	Methods for Clean up					
7.	Handling and Stor	rage				
	Handling		Eating, drin this materia wash hand	king, and Il is hand s and f Intaminat	l 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 Irinking, and smoking. ctive equipment before
	Storage	Store in accordance with local regulations. Store in container protected from direct sunlight in a dry, cool, ventilated area, away from incompatible materials (see so and food and drink. Keep container tightly closed and se ready for use. Containers that have been opened must be resealed and kept upright to prevent leakage. Do not unlabeled containers. Use appropriate containment environmental contamination.			a dry, cool, and well- aterials (see section 10) closed and sealed until bened must be carefully kage. Do not store in	
8.	Exposure Limits a	and Personal Prote		mont		
0.			United St			
			upational Exp	osure Li	mits Exposure Lin	vito
		Ingredient				11.5
			Canada upational Exposure Limits			
		Осси				
	Ingredient	List Name			Ceiling	
			Mexic	0		
		Оссі	upational Exposure Limits			
1		Exposure Limits				
		Ingredient			Exposure Lin	nits
		Ingredient			Exposure Lin	nits
		Ingredient			·	
	Recommended Monit		workplace, a determine f measures equipment.	atmosphe the effec and/or t	ins ingredients with ex ere, or biological monito tiveness of the venti he necessity to use	nits posure limits, personal, pring may be required to lation or other control respiratory protective pod general ventilation

	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.
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 phosphate odor
	pH	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
	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.

11.	Toxicological Data							
	Acute Toxicity: None known							
	Product/Ingredient Name	Result	ed States Species	Dose	Exposure			
	Product/Ingredient Name	Result	anada Species	Dose	Exposure			
		<u> </u>						
	Product/Ingredient Name	Result	lexico Species	Dose	Exposure			
	Chronic Toxicity		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 pr		o spray or mist ma			
		Skin:	e respiratory tract irrita No specific informat	ion is available r				
	Sensitizer	sensitizing properties of this product. Sensitization not exponent						
		Respiratory: Sensitization not expected for humans There is no data on the preparation itself. Card			ans.			
	Carcinogenicity	suspec	ted for humans.	•	f. Mutagenicity no			
	Mutagenicity	suspec	ted for humans.					
	Teratogenicity	suspec	There is no data on the preparation itself. Teratogenicity no suspected for humans.					
	Reproductive Toxicity		There is no data on the preparation itself. Not considered to be dangerous to humans.					
12.	Ecological Data							
	Ecotoxicity		adily biodegradable					
	Aquatia Eastaviaity		is no data available on	the properation itee	.16			
	Aquatic Ecotoxicity Persistence/Degradability	This p biodeg	roduct has not been radable. This product no food chains in the en	tested for biodegra t is not expected	dation. Not readil			
		Canada						
	Aquatic Ecotoxicity	There						
	Persistence/Degradability	This product has not been tested for biodegradation biodegradable. This product is not expected to be through food chains in the environment.						
		Μ	lexico					
	Aquatic Ecotoxicity		is no data available on					
	Persistence/Degradability	This p biodeg	This product has not been tested for biodegradation. Not readil biodegradable. This product is not expected to bioacculumat through food chains in the environment.					

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 wit	h 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	(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)	m FLAMMABILITY 1 on a 0-4 s represen hazards 0 PERSONAL B represen		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	e for determining the PPE co	ode for this	material.		
	Date of Issue	January 28, 2015				
	Version	2				
	Changes from Previous Version	Yes				
	Prepared by:	ECL Research and Developr	nent Depar	tment		
	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 source. Engineered Custom Lubricants neither represents	to reader: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the or particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY MALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A JLAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Appropriate warnings and safe handling es should be provided to handlers and users. Alteration of this document is strictly prohibited. Engineered Custom Lubricants assumes insibility for accuracy of information unless the document is the most current available from an official Engineered Custom Lubricants ingineered Custom Lubricants hat the format, content or product formulas contained in this document if the laws of any other country except the United States of America.				