

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel 1106

1.	Substance, Preparation, and Co	ompany Description		
	Material Uses	Lubricant, Grease, Industrial applications		
		Engineered Custom Lubricants (ECL)		
	Manufacturer	3851 Exchange Ave.		
	Wallulacture	Aurora, IL 60504		
		630-449-5000		
	Product Code	TriboGel 1106		
	Validation Date	February 3, 2015		
	In case of emergency contact	1-630-449-5000		
2.	Hazards Identification			
		Emergency Overview		
	Physical State	Semi-solid, grease		
	Color	Translucent white		
	Odor	Nearly odorless		
	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. Dermal contact. Eye contact. Ingestion 		
	Routes of Entry			
		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.		
	Po	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\	/er-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						
	Name		CAS Number	EINECS Number	%		
	No Hazardous or Reportable Ingredients						
4.	First Aid Measures						
	Eye Contact	witl upp	h plenty of water for a per and lower eyelids.	iny 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 wate least 15 minutes while removing contaminated clothing and Wash clothing before reuse. Get medical attention if syn occur. Move exposed person to fresh air. If not breathing, if breat irregular or if respiratory arrest occurs, provide artificial resp or oxygen by trained personnel. Loosen tight clothing suc collar, tie, belt, or waistband. Get medical attention if syn occur. 			lothing and shoes.		
	Inhalation				artificial respiration lothing such as a		
	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 quai			
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 vici of the incident if there is a fire. No action shall be taken involv any personal risk or without suitable training.					
	Hazardous thermal decomposition products			e carbon monoxide, small amounts of other t			
	Special protective equipment for firefighters	Fire-fighters should wear protective equipment and self- breathing apparatus (SCBA) with a full face-piece op positive pressure mode.					
6,	Accidental Release Measures						
	Personal Precautions	sui and thre	table training. Evacua d unprotected person	en involving any persor ate surrounding areas. I nel from entering. Do . Put on appropriate p 3).	Keep unnecessary not touch or walk		

	Environmental Preca	utions	waterways, product has	drains, a	nd sewers. Inform the r	off and contact with soil, elevant 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. 			
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 Irinking, and smoking. ctive 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	ctive Equi	nmont		
0.			United S			
			upational Exp	osure Li	mits Exposure Lin	
		Ingredient				1115
			Canada			
		Осси	upational Exposure Limits			
	Ingredient	List Name	TWA (8 H	ours)	STEL (15 mins)	Ceiling
			Mexico			
		Ingredient	Ipational Exposure Limits Exposure Limits		nits	
		0				
	Recommended Monit	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, oring may be required to lation or other control respiratory protective	
	Engineering Measure	should be	sufficien	t to control worker	ood general ventilation exposure to airborne redients 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.
Physical and Chemical Properties	
Physical State	Semi-solid, grease
Flash Point	Not Available
Auto-ignition Temperature	Not Available
Flammable Limits	Not Available
Color	Translucent white
Odor	Nearly odorless
pH	Not Available
Boiling/condensation Point	Not Available
Melting/freezing Point	Not Available
Density	Approx. 0.89 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
Stability and reactivity	
Chemical Stability	The product is stable
Conditions to avoid	No specific data
Incompatible Materials	No specific data
Incompatible Materials Hazardous Decomposition Products	No specific data Under normal conditions of storage and use, hazardous decomposition product should not be produced. Under normal conditions of storage and use, hazardous reactions

11.	Toxicological Data						
	Acute Toxicity: None known						
	Product/Ingredient Name	Result	ed States Species	Dose	Exposure		
	Product/Ingredient Name	C Result	anada Species	Dose	Exposure		
			lexico	-			
	Product/Ingredient Name	Result	Species	Dose	Exposure		
	Chronic Toxicity		ted or prolonged exponent	osure to spray or	mist may produc		
			No known significant ef	fects or critical haza	ards.		
	Irritation/Corrosion	Eyes: I	No known significant ef	ffects or critical haz	ards.		
			atory: Repeated or pro		o spray or mist ma		
		produc Skin:	e respiratory tract irrita No specific informat	tion. ion is available r	egarding the ski		
	Sensitizer	sensitizing properties of this product. Sensitization not exp humans.					
	Carcinogenicity	Respiratory: Sensitization not expected for humans. There is no data on the preparation itself. Carc suspected for humans. There is no data on the preparation itself. Mage: Sensitization itself.			arcinogenicity no		
	Mutagenicity				. Mutagenicity no		
	Teratogenicity	There	ted for humans. is no data on the	preparation itself.	Teratogenicity no		
	Reproductive Toxicity		ted for humans. is no data on the pre	preparation itself. Not considered to b			
	dangerous to humans.						
12.	Ecological Data	Notros	adily biodegradable				
	Ecotoxicity		ed States				
	Aquatic Ecotoxicity		is no data available on	the preparation itse	lf		
	Persistence/Degradability	This p biodeg	roduct has not been tradable. This product not be the product of t	tested for biodegra t is not expected	adation. Not readil		
		Canada					
	Aquatic Ecotoxicity	There is no data available on the preparation					
	Persistence/Degradability	This product has not been tested for biodegrada biodegradable. This product is not expected to through food chains in the environment.					
		Μ	lexico				
	Aquatic Ecotoxicity		s no data available on				
	Persistence/Degradability	biodeg		t is not expected	sted for biodegradation. Not readil is not expected to bioacculumat		

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			Croup		Internation
DOT Classification	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				
10.	Labeling Requirements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED			
	Hazardous Material Information System (USA)	FLAMMABILITY1REACTIVITY0PERSONALBrepresenting sign		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	February 3, 2015			
	Version	2			
	Changes from Previous Version	Yes			
	Prepared by:	ECL Research and Developr	nent Depar	tment	
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