

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel PA6110LCS-1

1.	Substance, Preparation, and Company Description					
	Material Uses	Lubricant, Grease, Industrial applications				
		Engineered Custom Lubricants (ECL)				
	Manufacturer	3851 Exchange Ave.				
	Wandacture	Aurora, IL 60504				
		630-449-5000				
	Product Code	TriboGel PA6110LCS-1				
	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	Off-white				
	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.				
		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				

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lush eyes							
lifting the							
occur.							
ater for at							
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							
irregular or if respiratory arrest occurs, provide artificial respiration							
or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms							
symptoms							
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 suitable training.							
				No specific treatment. Treat symptomatically. Contact poison			
				treatment specialist immediately if large quantities have been ingested or inhaled.			
ne vicinity							
of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.							
Burning may produce carbon monoxide, carbon dioxide, formaldehyde, as well as small amounts of other toxic fumes.							
contained							
erated in							
r without							
necessary							
or walk							
J. 01.5011011							

	Environmental Precau	utions	waterways, drains,	and sewers. Inform the	off and contact with soil, relevant authorities if the on (sewers, waterways,
	Methods for Clean up		Small spill: Move material and place Dispose of via a lice Large spill: Move sewers, water cours sweep up material container. Dispose	e in a designated, latensed waste disposal containers from spill asses, basements, or coral and place in a destruction of via a licensed was for emergency contact	ea. Vacuum or sweep up beled waste container. ntractor. area. Prevent entry into ifined areas. Vacuum or signated, labeled waste ste disposal contractor. information and section
7.	Handling and Storage				
	Handling		Eating, drinking, ar this material is ha wash hands and	nd 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		container protected ventilated area, aw and food and drink ready for use. Con resealed and kept	I from direct sunlight in ay from incompatible m a. Keep container tightly tainers that have been of upright to prevent lea ers. Use appropriate	ions. Store in original n a dry, cool, and well-aterials (see section 10) closed and sealed until spened must be carefully akage. Do not store in containment to avoid
8.	Exposure Limits a	and Personal Prote	 ective Fauipment		
			United States		
		Occ Ingredient	upational Exposure	Limits Exposure Lir	nite
		ingredient		Exposure En	ints
	000		Canada supational Exposure Limits		
	Ingredient	List Name	TWA (8 Hours)	STEL (15 mins)	Ceiling
		200	Mexico	Limita	
	Ingredient		upational Exposure	Exposure Lir	nits
	Recommended Monit	oring Procedures	workplace, atmosp determine the eff	here, or biological monit ectiveness of the vent	xposure limits, personal, oring may be required to cilation or other control e respiratory protective
	Engineering Measure	s	should be sufficient contaminants. If the limits, use process	ent to control worker his product contains in a enclosures, local exha	ood general ventilation exposure to airborne gredients with exposure aust ventilation or other exposure below any

		Mach hands forcerms and foca therewishly after handling the series!
	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
	Respiratory	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	
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	Physical State Flash Point	Semi-solid, grease Not Available
	Auto-ignition Temperature	Not Available Not Available
	Flammable Limits	Not Available Not Available
	Color	Off-white
	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
	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. 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
	_				
		Canada			
	Product/Ingredient Name	Result	Species	Dose	Exposure
			exico		
	Product/Ingredient Name	Result	Species	Dose	Exposure
		Panaat	ed or prolonged exp	accura to aprov or	mist may produce
	Chronic Toxicity		ory tract irritation.	osule to spray of	mist may produce
		Skin: N	o known significant e	ffects or critical haza	ards.
	Irritation/Corrosion	Eyes: N	lo known significant e	ffects or critical haza	ards.
	irritation/corrosion	Booming	otawa Danastad ar nr	rolonged evineeure to	annov or mist may
		Respiratory: Repeated or prolonged exposure to spray or mis produce respiratory tract irritation. Skin: No specific information is available regarding the sensitizing properties of this product. Sensitization not expect humans. Respiratory: Sensitization not expected for humans. There is no data on the preparation itself. Carcinogenicit suspected for humans. There is no data on the preparation itself. Mutagenicit suspected for humans. There is no data on the preparation itself. Teratogenicit		spray or mist may	
	Sensitizer			on not expected for	
	Carcinogenicity			• •	
	Mutagenicity			Mutagenicity not	
	Teratogenicity			Teratogenicity not	
			ed for humans. s no data on the pr	eparation itself. Not	t considered to be
	Reproductive Toxicity	dangerous to humans.			
12.	Ecological Data				
	Ecotoxicity	Not rea	dily biodegradable		
	United States				
	Aquatic Ecotoxicity	There is no data available on the preparation itself This product has not been tested for biodegradation. No biodegradable. This product is not expected to bioacc		If	
	Persistence/Degradability		food chains in the en		to bloacculumate
		Canada			
	Aquatic Ecotoxicity	There is no data available on the preparation		the preparation itse	If
		This pr	oduct has not been	tested for biodegra	dation. Not readily
	Persistence/Degradability		adable. This product food chains in the en		to bioacculumate
			exico		
	Aquatic Ecotoxicity		s no data available on	the preparation itse	If
		This pro	oduct has not been	tested for biodegra	dation. Not readily
	Persistence/Degradability		adable. This product food chains in the en		to bioacculumate
		unough	1000 GIAIIIS III LIIE EI	vii Oi II I GIII.	

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 regu			
	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					
	Pogulated					

Regulatory Information	
	United States
HSC Classification	Not Regulated
SCA 8(a) IUR Exempt/Partial Exemption	Not Determined
Jnited States Inventory (TSCA 8b)	All components are listed or exempt
Clean Air Act Section 112(b) – Hazardous Air Pollutants (HAP'S)	Not listed
T J	ISC Classification SCA 8(a) IUR Exempt/Partial Exemption Inited States Inventory (TSCA 8b) Ilean Air Act Section 112(b) – Hazardous

SARA 313: No listed substances

	Product Name	CAS Number	Concentration %
Form R Reporting			
Requirements			
Supplier Notification			
			<u> </u>

		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.						
	Date of Issue	February 3, 2015					
	Version	2					
	Changes from Previous Version	Yes					
	Prepared by:	ECL Research and Development Department					

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