

## **Material Safety Data Sheet**

Innovation and Experience at Work

## TriboGel PA6110LCS-1.5

1.	Substance, Preparation, and Company Description		
	Material Uses	Lubricant, Grease, Industrial applications	
		Engineered Custom Lubricants (ECL)	
	Manufacturer	3851 Exchange Ave.	
	Wallulacturel	Aurora, IL 60504	
		630-449-5000	
	Product Code	TriboGel PA6110LCS-1.5	
	Validation Date	February 3, 2015	
	In case of emergency contact	1-630-449-5000	
2.	Hazards Identification		
		mergency 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	
	Pote	ntial 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.	
	Poten	tial 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-e	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	%	
	No Haza	ardous	s or Reportable Ingred	ients		
	INO I IAZO	aruou	or reportable ingred	icitis		
4.	First Aid Measures					
4.	FIISLAIU WEASUIES	Ch	eck for and remove a	ny contact lenses. Imme	adiately flush eyes	
	Eye Contact			at least 15 minutes, occ		
	, , , , , , , , , , , , , , , , , , , ,	upp	per and lower eyelids.	Get medical attention if s	symptoms occur.	
				diately flush skin with ple		
	Skin Contact			emoving contaminated c		
			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			
	Inhalation	or	or oxygen by trained personnel. Loosen tight clothing such as a			
			collar, tie, belt, or waistband. Get medical attention if symptoms occur.			
				ter. Do not induce vomiti	ing unless directed	
	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			
		und	unconscious person. Get medical attention if symptoms occur.  No action shall be taken involving any personal risk or without			
	Protection for first-aiders					
	110100110111011101101		suitable training.  No specific treatment. Treat symptomatically. Contact poison			
	Note to Physician					
	Note to 1 Hysiolan		treatment specialist immediately if large quantities have been ingested or inhaled.			
		L				
5.	Firefighting Measures					
	Suitable Extinguishing Media		Chemical, CO <sub>2,</sub> Foan			
	Chariel Eymanyer Harrarda		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			
	Special Exposure Hazards		the incident if there is personal risk or witho		be taken involving	
	Hazardous thermal decomposition				carbon dioxide,	
	products		Burning may produce carbon monoxide, carbon dioxide, formaldehyde, as well as small amounts of other toxic fumes.			
	Special protective equipment for			r protective equipment		
	firefighters		breathing apparatus (SCBA) with a full face-piece operated in			
	<b>3</b> 17 7	pos	sitive pressure mode.			
6.	Accidental Release Measures					
U.	Accidental Nelease Weasules	No	action shall be take	n involving any persor	al risk or without	
				ite surrounding areas. I		
	Personal Precautions	and	d unprotected person	nel from entering. Do	not touch or walk	
		thro	ough spilled material.	Put on appropriate p		
		equipment (see Section 8).				

	Environmental Precau	itions	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, la ensed waste disposal co containers from spill a ses, basements, or corul and place in a desor via a licensed was for emergency contact	a. 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 essed. Workers should drinking, and smoking. ective equipment before	
	Storage		container protected ventilated area, aw and food and drink ready for use. Contresealed and kept	I from direct sunlight in ay from incompatible man temperature in Keep container tightly rainers that have been contributed upright to prevent leaders. Use appropriate	ions. Store in original a dry, cool, and well-aterials (see section 10) closed and sealed until pened must be carefully akage. Do not store in containment to avoid	
8.	Exposure Limits a	nd Personal Prote	⊥ ective Equipment			
			United States			
		Ingredient Occ	upational Exposure	Limits Exposure Lir	nits	
			Canada			
	Ingredient	List Name	upational Exposure TWA (8 Hours)	STEL (15 mins)	Ceiling	
			Mexico			
			upational Exposure			
		Ingredient		Exposure Lir	nits	
	Recommended Monito	oring Procedures	workplace, atmosp determine the effe	nere, or biological monit ectiveness of the vent	oring may be required to illation or other control e respiratory protective	
	Engineering Measures	3	should be sufficie contaminants. If th limits, use process	ent to control worker his product contains in a enclosures, local exh ols to keep worker	exposure to airborne gredients with exposure aust ventilation or other exposure below any	

	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	
Э.	Physical State	Semi-solid, grease
	Flash Point	Not Available
	Auto-ignition Temperature	Not Available
	Flammable Limits	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 <sup>3</sup>
	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
40	Stability and resetivity	
10.	Stability and reactivity	The product is stable
	Chemical Stability Conditions to avoid	The product is stable  No specific data
		No specific data  No specific data
	Incompatible Materials	Under normal conditions of storage and use, hazardous
	Hazardous Decomposition Products	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 United States					
	Product/Ingredient Name	Result	Species	Dose	Exposure	
	_					
		Ca	anada			
	Product/Ingredient Name	Result	Species	Dose	Exposure	
			exico			
	Product/Ingredient Name	Result	Species	Dose	Exposure	
		Danast	ed or prolonged exp	ocura ta anrov ar	miet meu preduee	
	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	otanu Donastad ar ni	rolonged evineeure to	annou or mist may	
		Respiratory: Repeated or prolonged exposure produce respiratory tract irritation.  Skin: No specific information is available			spray or mist may	
				tion is available re		
	Sensitizer	sensitiz	ing properties of this	product. Sensitization	on not expected for	
			atory: Sensitization notice is no data on the			
	Carcinogenicity	suspected for humans.  There is no data on the preparation itself. No suspected for humans.		•		
	Mutagenicity			Mutagenicity not		
	Teratogenicity	There	is no data on the	preparation itself.	Teratogenicity not	
			ed for humans. s no data on the pr	eparation itself. Not	t considered to be	
	Reproductive Toxicity		ous to humans.	<u> </u>		
12.	Ecological Data	ogical Data				
	Ecotoxicity Not readily biodegradable United States					
	Aquatic Ecotoxicity	There is	s no data available on	the preparation itse	If	
			oduct has not been			
	Persistence/Degradability		adable. This product food chains in the en		to bloacculumate	
		Ca	ınada			
	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	
			exico			
	Aquatic Ecotoxicity		s no data available on	the preparation itse	lf	
		This pro	oduct has not been	tested for biodegra	gradation. Not readily	
	Persistence/Degradability		adable. This product food chains in the en		to bioacculumate	
		Linough	1000 Origins III the en	vii Oriii ioric.		

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	al should be in accordance with applicable regional, national, and local laws and regulations bection 7: HANDLING AND STORAGE and Section 8: EXPOSURE LIMITS AND PERSONAL		
	PROTECTIVE EQUIPMENT for addit	ional 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			
	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.				
	Date of Issue	February 3, 2015			
	Version	2			
	Changes from Previous Version	Yes			
	Prepared by:	ECL Research and Development Department			

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