

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel PA6110LCS-2.5

1.	Substance, Preparation, and Company Description			
	Material Uses	Lubricant, Grease, Industrial applications		
		Engineered Custom Lubricants (ECL)		
	Manufacturer	3851 Exchange Ave.		
	Wallulacturei	Aurora, IL 60504		
		630-449-5000		
	Product Code	TriboGel PA6110LCS-2.5		
	Validation Date	February 21, 2014		
	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		
	Pote	ential 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.		
	Poter	ntial 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-	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						
	•						
	Name		CAS Number	EINECS Number	%		
	No Haz	ardous	s or Reportable Ingredi	ents			
			, ,				
4.	First Aid Measures						
4.	First Alu Weasures	Ch	ack for and remove a	ny contact lenses. Imme	adiatoly fluch ovec		
	Eye Contact	with	n nlenty of water for a	t least 15 minutes, occ	asionally lifting the		
	Lyc Contact			Get medical attention if s			
				diately flush skin with ple			
	Clair Contact		least 15 minutes while removing contaminated clothing and shoe				
	Skin Contact			euse. Ğet medical atter			
		occur.					
		Move exposed person to fresh air. If not breathing, if breathing					
		irre	irregular or if respiratory arrest occurs, provide artificial respiration				
	Inhalation		or oxygen by trained personnel. Loosen tight clothing such a				
				oand. Get medical atte	ntion if symptoms		
		Occur. Wash out mouth with water. Do not induce vomiting unless					
	Ingestion			er. Do not induce vorniti onnel. Never give anyth			
	ingestion			medical attention if sym			
				n involving any person			
	Protection for first-aiders	suitable training.					
		No	specific treatment.	Treat symptomatically	. Contact poison		
	Note to Physician		treatment specialist immediately if large quantities have b				
		ing	ested or inhaled.				
5.	Firefighting Measures						
	Suitable Extinguishing Media		Chemical, CO _{2,} Foam				
				e by removing all persor			
	Special Exposure Hazards			a fire. No action shall	be taken involving		
			personal risk or witho				
	Hazardous thermal decomposition			carbon monoxide,			
	products			small amounts of other to protective equipment a			
	Special protective equipment for		•	BA) with a full face-			
	firefighters		sitive pressure mode.	DDA) WILL A TUIL TACE-	Diece operated in		
		1	product mode.				
6.	Accidental Release Measures	1					
0.	/ tooldonial Noicasc incasules	No	action shall be take	n involving any person	al risk or without		
				te surrounding areas. I			
	Personal Precautions			nel from entering. Do i			
				Put on appropriate p			
		equ	ipment (see Section 8).			
		Avo	oid dispersal of spilled	material and runoff and			
	Environmental Precautions			ewers. Inform the releva			
				rironmental pollution (se	ewers, waterways,		
		soi	, 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, d this mate wash ha Remove entering	rinking, and erial is hand ands and f contaminate eating areas	smoking should be prodled, stored, and produce before eating, code clothing and protes.	ripment (see section 8). Tohibited in areas where essed. Workers should drinking, 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	nd Personal Prote		-			
		Occi		United States pational Exposure Limits			
		Ingredient		Exposure Limits			
		Occi	Canada upational Exposure Limits				
	Ingredient	List Name	•	Hours)	STEL (15 mins)	Ceiling	
		Mexico cupational Exposure Limits					
		Ingredient			Exposure Lin	nits	
	Recommended Monito	oring Procedures	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 equipment.				
	Engineering Measures	3	No spec should to contamin limits, us engineeri	ific ventilat be sufficien ants. If this e process ng control	t to control worker s product contains ing enclosures, local exha	exposure to airborne predients with exposure aust ventilation or other exposure below any	

	1	Mark hands toursess at the desired to the second to the se
	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 Chamical Properties	
9.	Physical and Chemical Properties	Comi colid graces
	Physical State Flash Point	Semi-solid, grease Not Available
		Not Available Not Available
	Auto-ignition Temperature Flammable Limits	Not Available Not Available
	Color	Off-white
	Odor	Mild petroleum odor
	pH	Not Available
	Boiling/condensation Point	Not Available Not Available
	Melting/freezing Point	Not Available 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
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	Solubility	
	Solubility Physical/chemical Properties Comments	Insoluble in the following materials: hot and cold water Not Available
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10.	Physical/chemical Properties Comments	Insoluble in the following materials: hot and cold water
10.	Physical/chemical Properties Comments Stability and reactivity	Insoluble in the following materials: hot and cold water
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10.	Physical/chemical Properties Comments Stability and reactivity Chemical Stability	Insoluble in the following materials: hot and cold water Not Available The product is stable
10.	Physical/chemical Properties Comments Stability and reactivity Chemical Stability Conditions to avoid	Insoluble in the following materials: hot and cold water Not Available The product is stable No specific data No specific data Under normal conditions of storage and use, hazardous decomposition product should not be produced.
10.	Physical/chemical Properties Comments Stability and reactivity Chemical Stability Conditions to avoid Incompatible Materials	Insoluble in the following materials: hot and cold water Not Available The product is stable No specific data No specific data Under normal conditions of storage and use, hazardous

11.	Toxicological Data				
Acute Toxicity: None known United States					
	Product/Ingredient Name	Result	Species	Dose	Exposure
	_				
		Ca			
	Product/Ingredient Name	Result	Species	Dose	Exposure
			exico		
	Product/Ingredient Name	Result	Species	Dose	Exposure
		Danast	ad or prolonged over	ocure to enroy or	miet meu preduee
	Chronic Toxicity		ed or prolonged exp 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	annou or miet meu
			atory: Repeated or pre- e respiratory tract irrita		spray or mist may
		Skin:	No specific informa	tion is available re	
	Sensitizer	sensitiz	ing properties of this	product. Sensitization	on not expected for
		Baanin		-	
	Operation and residual		atory: Sensitization notice is		
	Carcinogenicity	suspect	ed for humans.	•	• •
	Mutagenicity		is no data on the ed for humans.	preparation itself.	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				
	Ecotoxicity	Not rea	dily 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	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 OriiriiGHt.	

13.	Disposal Considerations				
13.	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	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		
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 %

	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 FLAMMABILITY REACTIVITY PERSONAL PROTECTION 1 HMIS Ratings are on a 0-4 scale, w representing mir hazards or risks, representing sig hazards or risks.					
	The customer is responsible for determining the PPE code for this material.						
	Date of Issue	February 21, 2014					
	Version	2					
	Changes from Previous Version	Yes					
	Prepared by:	ECL Research and Development Department					

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