

## **Material Safety Data Sheet**

## Innovation and Experience at Work

## TriboGel 2103

1.	Substance, Preparation, and Company Description					
	Material Uses	Lubricant, Grease, Industrial applications				
		Engineered Custom Lubricants (ECL)				
	Manufacturer	3851 Exchange Ave.				
	Mandiacturei	Aurora, IL 60504				
		630-449-5000				
	Product Code	TriboGel 2103				
	Validation Date	February 9, 2015				
	In case of emergency contact	1-630-449-5000				
2.	Hazards Identification					
	E	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.				
		While this material is not considered hazardous by the OSHA				
	OSHA/HCS Status	Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and				
	OSHAHIOS Status	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				
	·	tial 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.				
		ial 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.				
		xposure 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. 11		D delle le P	Constant Constant		
	No Haza	ardous	s or Reportable Ingredi	ents		
4.	First Aid Measures					
		Ch	eck for and remove a	ny contact lenses. Imme	ediately flush eyes	
	Eye Contact	with	n plenty of water for a	it least 15 minutes, occ	asionally lifting the	
				Get medical attention if s		
				diately flush skin with ple		
	Skin Contact			moving contaminated c		
			<u> </u>	euse. Get medical atter	ntion if symptoms	
		OCC		fresh air. If not breath	ing if breathing is	
				arrest occurs, provide a		
	Inhalation	or	oxvaen by trained be	rsonnel. Loosen tight of	lothing such as a	
	collar, tie, belt, or waistband. Get medica occur.					
				, ,		
			Wash out mouth with water. Do not induce vomiting unless directed			
	Ingestion			onnel. Never give anyth		
				medical attention if symp		
	Protection for first-aiders			n involving any person	ial risk or without	
	Note to Physician		table training.	Treat symptomatically	Contact poison	
				nediately if large quar		
	Note to 1 Hydrolan	ingested or inhaled.				
5.	Firefighting Measures	•				
	Suitable Extinguishing Media	Dry	Chemical, CO <sub>2,</sub> Foam	n. or Water Fog		
				e by removing all persor	ns from the vicinity	
	Special Exposure Hazards	of t	the incident if there is	a fire. No action shall	be taken involving	
			personal risk or witho			
	Hazardous thermal decomposition			carbon monoxide,		
	products			small amounts of other t		
	Special protective equipment for		Fire-fighters should wear protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in			
	firefighters			CBA) with a full face-p	piece operated in	
		pos	sitive pressure mode.			
6.	Accidental Release Measures					
0.	Accidental Release Weasures	No	action chall be take	n involving any person	al rick or without	
				te surrounding areas. I		
	Personal Precautions			nel from entering. Do		
				Put on appropriate p		
			uipment (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		material Dispose of Large sp sewers, v sweep u container Note: See	and place of via a licential: Move of water course p material. Dispose	in a designated, lates waste disposal corportainers from spill ares, basements, or conand place in a desof via a licensed wasfor emergency contact	a. Vacuum or sweep up beled waste container. Intractor. Information and section	
7.	Handling and Stor	rage					
	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 procace before eating, ced clothing and prote	ripment (see section 8). Tohibited in areas where essed. Workers should drinking, and smoking. Ctive equipment before	
	Storage		container ventilated and food ready for resealed unlabeled	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 Equ	uipment			
		Occi		States xposure Li	mite		
		Ingredient	upationai L	Aposure Li	Exposure Lim	nits	
			Canada				
	Ingredient	Occı List Name	pational Exposure Limits TWA (8 Hours) STEL (15 mins)			Ceiling	
	ingredient List Name		11174 (0	Hours	0122 (10 111113)	Jennig	
		Me	xico				
		upational Exposure Limits					
	Ingredient				Exposure Lin	nits	
	Recommended Monito	oring Procedures	workplace determine measures equipmen	e, atmosphe e the effect s and/or that.	ere, or biological monitor etiveness of the venti the necessity to use	posure limits, personal, oring may be required to ilation or other control respiratory protective	
	Engineering Measures	S	should be contaminated limits, us engineeri	e sufficien ants. If this e process ng controls	t to control worker product contains ing enclosures, local exha	ood general ventilation exposure to airborne gredients with exposure aust ventilation or other exposure below any	

		Mach hands favoures and favo the sounds of the desire the sounds.
	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  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 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
4.5		
10.	Stability and reactivity	1=-
	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.
	-	Will Hot occur.

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13. Disposal Considerations				
be disposed of via the foul sewer but process effluent treatment plant. Dispose of surplus and products via a licensed waste disposal contractor product, solutions, and any by-products should at with the requirement of environmental protect disposal legislation and any regional or local author Waste packaging should be recycled. Incineration only be considered when recycling is not feasible. It's container must be disposed of in a safe way. For liners may contain some product residues. As	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					

tory Information	
	United States
ssification	Not Regulated
) IUR Exempt/Partial Exemption	Not Determined
tates Inventory (TSCA 8b)	All components are listed or exempt
Act Section 112(b) – Hazardous tants (HAP'S)	Not listed
t	) IUR Exempt/Partial Exemption ates Inventory (TSCA 8b) Act Section 112(b) – Hazardous

## 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					
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  1 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 9, 2015					
Version	1					
Changes from Previous Version	N/A					
Prepared by:	ECL Research and Development Department					
	Canadian NPRI CEPA Toxic Substances Canada Inventory  Classification  Other Information  Labeling Requirements  Hazardous Material Information System (USA)  The customer is responsibe Date of Issue Version Changes from Previous Version					

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