

Material Safety Data Sheet

Innovation and Experience at Work

TriboGel 988A

1.	Substance, Preparation, and Company Description		
	Material Uses	Lubricant, Grease, Industrial applications	
		Engineered Custom Lubricants (ECL)	
		3851 Exchange Ave.	
	Mandiactarci	Aurora, IL 60504	
	_	630-449-5000	
	Product Code	TriboGel 988A	
	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	Amber	
	Odor	Amine 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	
	Poten	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.	
	Potential 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-ex	kposure 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	
	Name		CAS Number	EINECS Number	%
	No Hozz	ardau	s or Reportable Ingred	ionto	
	INO I IdZa	aruous	s of Reportable Ingred	ients	
4.	First Aid Measures				
4.	First Aid Weasures	Ch	ack for and remove a	ny contact lenses. Immo	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				
			_	euse. Get medical alle	ntion ii symptoms
			Move exposed person to fresh air. If not breathing, if breathing is		
		irre	irregular or if respiratory arrest occurs, provide artificial respiration		
	Inhalation		or oxygen by trained personnel. Loosen tight clothing such as a		
			collar, tie, belt, or waistband. Get medical attention if symptoms occur.		
			Wash out mouth with water. Do not induce vomiting unless directed		
	Ingestion	to o	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		
	Protection for first-aiders				
	Note to Physician		treatment specialist immediately if large quantities have been		
		ing	ested or inhaled.		
		<u> </u>			
5.		-	01 1 20 =)A/ / =	
	Suitable Extinguishing Media				ne from the vicinity
	Special Exposure Hazards				
	apatian Experience i ideal and		personal risk or without		at taken involving
	Hazardous thermal decomposition	Bui	rning may produce	carbon monoxide,	
	products				
	Special protective equipment for				
	firefighters			טבא) willi a Iuli Iace-	piece operated III
		750			
6.	Accidental Release Measures				
				en involving any person	
	Barrage I Brance II			ate surrounding areas. I	
	Personal Precautions				
			uipment (see Section 8		ersonar protection
5.	Inhalation Ingestion Protection for first-aiders Note to Physician Firefighting Measures Suitable Extinguishing Media Special Exposure Hazards Hazardous thermal decomposition products Special protective equipment for firefighters	lea Wa occ Mo irre or coll occ Wa to c und No suit No treating Proof 1 any Built form	st 15 minutes while reach clothing before reactor. The exposed person to gular or if respiratory oxygen by trained person to gular, tie, belt, or waist our. The shout mouth with ward on so my medical personscious person. Get action shall be take table training. The specific treatment at the incident if there is a personal risk or without many produce maldehyde, as well as the incident if there is a personal risk or without many produce maldehyde, as well as the incident if the scenal desired personal risk or without many produce maldehyde, as well as the incident in the second action shall be take the training apparatus (Stative pressure mode.	emoving contaminated cause. Get medical atterpolates. Get medical atterpolates. Get medical atterpolates. Get medical atterpolates. Loosen tight of band. Get medical atterpolates. Do not induce vomitional. Never give anythogen involving any personal attention if symplemedical attention if s	lothing and shoention if sympton ing, if breathing artificial respiration if sympton ing unless directing by mouth to aptoms occur. Inal risk or without the sympton in th

	Environmental Preca	utions	waterways, drains, a	and sewers. Inform the	off and contact with soil, relevant authorities if the on (sewers, waterways,
	Methods for Clean นุ)	Small spill: Move of material and place Dispose of via a lice Large spill: Move sewers, water cours sweep up material container. Dispose	e in a designated, la nsed waste disposal co containers from spill a ses, basements, or con l and place in a des of via a licensed wa for emergency contact	a. Vacuum or sweep up beled waste container. ntractor. area. Prevent entry into fined areas. Vacuum or signated, labeled waste ste disposal contractor. information and section
7.	Handling and Sto	rage			
	Handling		Eating, drinking, an this material is har wash hands and	d smoking should be p ndled, stored, and prod face before eating, of ted 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, awa and food and drink ready for use. Contaresealed and kept	from direct sunlight in ay from incompatible may keep container tightly ainers that have been of 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	and Personal Prote	 ective Eauipment		
			United States		
		Occi Ingredient	upational Exposure L	imits Exposure Lin	nits
				p	
			0		
			Canada		
	Ingredient		upational Exposure L		Ceiling
	Ingredient	Occi List Name		imits STEL (15 mins)	Ceiling
	Ingredient		upational Exposure L		Ceiling
	Ingredient	List Name	upational Exposure L TWA (8 Hours)	STEL (15 mins)	
	Ingredient	List Name	upational Exposure L TWA (8 Hours) Mexico	STEL (15 mins)	
	Ingredient	List Name	upational Exposure L TWA (8 Hours) Mexico	STEL (15 mins)	
	Ingredient Recommended Monit	Cocci Ingredient	Mexico upational Exposure L Mexico upational Exposure L If this product conta workplace, atmosph determine the effe	Exposure Line ains ingredients with exposure, or biological monitativeness of the vent	

	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.	
	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		
<i>J.</i>	Physical State	Semi-solid, grease	
	Flash Point	Not Available	
	Auto-ignition Temperature	Not Available	
	Flammable Limits	Not Available	
	Color	Amber	
	Odor	Amine odor	
	pH	Not Available	
	Boiling/condensation Point	Not Available	
	Melting/freezing Point	Not Available 0.9 g/cm ³	
	Density Vapor Pressure	Not Available	
	Vapor Pressure 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	1=-	
	Chemical Stability	The product is stable	
	Conditions to avoid	No specific data No specific data	
	Incompatible Materials	'	
	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
	_				
		Canada			
	Product/Ingredient Name	Result	Species	Dose	Exposure
			exico		
	Product/Ingredient Name	Result	Species	Dose	Exposure
		Danast	ed or prolonged exp	ocure to enroy or	miet meu predues
	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 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
			atory: Sensitization no issued in the second		
	Carcinogenicity	suspected for humans. There is no data on the preparation itself. Mutages suspected for humans. There is no data on the preparation itself. Teratogen		•	• •
	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 readily biodegradable United States			
	Aquatic Ecotoxicity			If	
			This product has not been tested for biodegradation. Not biodegradable. This product is not expected to bioaccu		
	Persistence/Degradability		food chains in the en		to bloacculumate
		Ca	Canada		
	Aquatic Ecotoxicity		s no data available on	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 EII	vii OriiriiGHt.	

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 addi	tional 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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