

Material Safety Data Sheet

Innovation and Experience at Work

ViscoTech R416

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	ViscoTech R416			
	Validation Date	February 4, 2015			
	In case of emergency contact	1-630-449-5000			
2.	Hazards Identification				
	Emergency Overview				
	Physical State	Semi-solid, grease			
	Color	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.			
	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.			
		-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						
				I			
	Name		CAS Number	EINECS Number	%		
	No Hozz	ordou	or Donortoble Ingred	ionto			
	INO FIAZA	ardous	s or Reportable Ingred	ients			
-	First Aid Massures						
4.	First Aid Measures	Ch	ack for and remove a	ny contact lenses. Imme	adiately flush over		
	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				
		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 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				
	Ingestion						
	Protection for first-aiders						
	Note to Physician			nediately if large quar			
	,		ingested or inhaled.				
5.	Firefighting Measures						
	Suitable Extinguishing Media		Chemical, CO _{2,} Foam		f 0 - 1 1 1		
	Special Exposure Hazards			ne by removing all person a a fire. No action shall			
	Openiai Exposure Hazarus		personal risk or witho		DO LANGIT HIVOIVING		
	Hazardous thermal decomposition	Bu	Burning may produce carbon monoxide, carbon dioxide,				
	products			small amounts of other toxic fumes.			
	Special protective equipment for			r protective equipment			
	firefighters	breathing apparatus (SCBA) with a full face-piece positive pressure mode.		piece operated in			
		Pos	navo prossuro mode.				
6,	Accidental Release Measures						
		No	action shall be take	n involving any persor	al risk or without		
		sui	table training. Evacua	ite surrounding areas. I	Keep unnecessary		
	Personal Precautions		and unprotected personnel from entering. Do not touch or walk				
			through spilled material. Put on appropriate personal protection				
		equipment (see Section 8).					

	Environmental Precau	itions	waterways, dra	ns, a	and sewers. Inform the	off and contact with soil, relevant authorities if the on (sewers, waterways,	
	Methods for Clean up		material and Dispose of via a Large spill: M sewers, water sweep up ma container. Disp	olace ove cours erial ose on 1	e in a designated, la nsed waste disposal co- containers from spill a ses, basements, or con- and place in a des of via a licensed was for emergency contact	a. Vacuum or sweep up beled waste container. ntractor. area. Prevent entry into fined areas. Vacuum or ignated, labeled waste ste disposal contractor. information and section	
7.	Handling and Stor	age					
	Handling		Eating, drinking this material is wash hands a	, and han and mina	d smoking should be pladled, stored, and produced face before eating, of ted clothing and protes	uipment (see section 8). rohibited in areas where ressed. Workers should drinking, and smoking. rective equipment before	
	Storage		container prote ventilated area and food and o ready for use. (resealed and	cted awa rink. Conta cept taine	from direct sunlight in ay from incompatible may keep container tightly ainers that have been of upright to prevent leasers. 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 Prot	 ective Fauinm	ctive Equipment			
<u> </u>	Exposure Emilio		United State	s			
		Occ Ingredient	upational Exposure Limits				
		Regulation 29: CFR	Exposure Limits				
			Canada cupational Exposure Limits				
	Ingredient	List Name	TWA (8 Hour		STEL (15 mins)	Ceiling	
	3						
		Mexico					
		cupational Exposi	ıre L	imits Exposure Lin	nite		
	Ingredient				Exposure Lin	IIII.5	
					_		
	Recommended Monito	oring Procedures	workplace, atm determine the	osph effe	ere, or biological monito	rposure limits, personal, oring may be required to ilation or other control respiratory protective	
	Engineering Measures	5	No specific vishould be su contaminants. limits, use pro-	ficie f thi cess ontro	nt to control worker is product contains ing enclosures, local exha ils to keep worker	exposure to airborne gredients with exposure aust ventilation or other exposure below any	

	Week hands forcers and fore there where handling about and		
	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.	
	Dhysical and Chamical Dramartics		
9.	Physical and Chemical Properties	10	
	Physical State	Semi-solid, grease	
	Flash Point	Not Available	
	Auto-ignition Temperature Flammable Limits	Not Available Not Available	
	Color	White	
	Odor	Mild petroleum odor	
	pH	Not Available	
	•	Not Available Not Available	
	Boiling/condensation Point	Not Available Not Available	
	Melting/freezing Point	0.97 g/cm ³	
	0.915 Vapor Pressure	Not Available	
	Vapor Density	Not Available Not Available	
	Volatility	Not Available Not Available	
	Evaporation Data	Not Available Not Available	
	Viscosity	Not Available Not Available	
	Dispensability Properties	Not Available 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	
		Under normal conditions of storage and use, hazardous	
	Hazardous Decomposition Products	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	
	Due de stille mes dient Neue		exico	Dana	F	
	Product/Ingredient Name	Result	Species	Dose	Exposure	
		Reneate	ed or prolonged exp	osure to spray or	mist may produce	
	Chronic Toxicity	respirat	ory tract irritation.			
		Skin: N	o known significant e	ffects or critical haza	ards.	
	Irritation/Corrosion	Eyes: N	lo known significant e	ffects or critical haza	ards.	
		Resnira	atory: Repeated or pr	olonged exposure to	o spray or mist may	
		produce	respiratory tract irrita	ation.		
			No specific informating properties of this			
	Sensitizer	humans		product. Sensitization	on not expected for	
		Pasnirs	story: Sonsitization n	at expected for hum	ane	
	Carcinogenicity	Respiratory: Sensitization not expected for humans. There is no data on the preparation itself. Carcin suspected for humans. There is no data on the preparation itself. Mususpected for humans. There is no data on the preparation itself. Tera suspected for humans.				
	Carcinogenicity			proparation itself	Mutagonicity not	
	Mutagenicity					
	Teratogenicity			Teratogenicity not		
	Reproductive Toxicity	There i	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		no data available on			
	Persistence/Degradability		This product has not been tested for biodegradation biodegradable. This product is not expected to be			
	r er sistemeer begradability		food chains in the en		to bloacediumate	
		Ca	ınada			
	Aquatic Ecotoxicity	There is	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	
	1	1 5 911				

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 add	itional 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

		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 4, 2015					
	Version	2					
	Changes from Previous Version	Yes					
	Prepared by:	ECL Research and Development Department					

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