

## **Material Safety Data Sheet**

Innovation and Experience at Work

## ViscoTech R346

1.	Substance, Preparation, and Company Description				
	Material Uses	Lubricant, Grease, Industrial applications			
		Engineered Custom Lubricants (ECL)			
	Manufacturer	3851 Exchange Ave.			
	Manufacturer	Aurora, IL 60504			
		630-449-5000			
	Product Code	ViscoTech R346			
	Validation Date	February 3, 2015			
	In case of emergency contact	1-630-449-5000			
2.	Hazards Identification				
	Emergency Overview				
	Physical State	Semi-solid, grease			
	Color	Tan			
	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					
			0404	EINEOG N	T 0/	
	Name		CAS Number	EINECS Number	%	
	<u> </u>					
	No Hazz	ardous	s or Reportable Ingred	ionte		
	INO Haza	aruous	s of ixeportable iligied	ients		
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			
		irre	gular or if respiratory	arrest occurs, provide a	artificial respiration	
	Inhalation			ersonnel. Loosen tight o		
		col		band. Get medical atte	ntion if symptoms	
				ter. Do not induce vomiti	ing unless directed	
	Ingestion			sonnel. Never give anyth		
			unconscious person. Get medical attention if symptoms occur.  No action shall be taken involving any personal risk or without			
	Protection for first-aiders					
			suitable training.  No specific treatment. Treat symptomatically. Contact poison			
	Note to Physician		treatment specialist immediately if large quantities have been			
			ested or inhaled.			
5.	Firefighting Measures					
	Suitable Extinguishing Media	Dry Chemical, CO <sub>2</sub> , Foam. or Water Fog				
	Special Exposure Hazards	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				be taken involving	
	Hazardous thermal decomposition		any personal risk or without suitable training.  Burning may produce carbon monoxide, carbon dioxide,			
	products		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 positive pressure mode.			
	-	pos	nuve pressure mode.			
6,	Accidental Release Measures					
0.		No	action shall be take	en involving any person	al risk or without	
		sui	table training. Evacua	ate surrounding areas. I	Keep unnecessary	
	Personal Precautions			nel from entering. Do		
				. Put on appropriate p	ersonal protection	
		equipment (see Section 8).				

8.	Storage  Exposure Limits a		and food and drink ready for use. Cont resealed and kept unlabeled containe environmental contained	. Keep container tightly ainers that have been o upright to prevent lears. Use appropriate amination.	aterials (see section 10) closed and sealed until pened must be carefully akage. Do not store in containment to avoid		
		Ingredient Oil mist in air. OSHA Regulation 29: CFR 19					
	Oil mist in air. OSHA		910.1000		nits		
	Oil mist in air. OSHA	A Regulation 29: CFR 1	910.1000  Canada  upational Exposure I	5 mg/m <sup>3</sup>	nits		
	Oil mist in air. OSHA	A Regulation 29: CFR 1	Canada	5 mg/m <sup>3</sup>	Ceiling		
		A Regulation 29: CFR 1  Occi List Name	Canada upational Exposure I TWA (8 Hours) Mexico	5 mg/m <sup>3</sup> Limits STEL (15 mins)			
		Occi	Canada upational Exposure I TWA (8 Hours)	imits STEL (15 mins) Limits	Ceiling		
		A Regulation 29: CFR 1  Occi List Name	Canada upational Exposure I TWA (8 Hours) Mexico	5 mg/m <sup>3</sup> Limits STEL (15 mins)	Ceiling		
		Occi	Canada upational Exposure I TWA (8 Hours)  Mexico upational Exposure I	imits STEL (15 mins) Limits Exposure Lin	Ceiling		
		Occi List Name Occi Ingredient	Canada upational Exposure I TWA (8 Hours)  Mexico upational Exposure I  If this product cont workplace, atmosph determine the effe	imits STEL (15 mins)  imits Exposure Line ains ingredients with exposure, or biological monitoectiveness of the vent	Ceiling		

	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	Tan
	Odor	Mild petroleum odor
	pH	Not Available
	Boiling/condensation Point	Not Available
	Melting/freezing Point	Not Available
	Density	1.0318 g/cm <sup>3</sup>
	Vapor Pressure	Not Available
	Vapor Density	Not Available
	Volatility	Not Available
	<b>Evaporation Data</b>	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	
10.	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	
		C	anada			
	Product/Ingredient Name	Result	Species	Dose	Exposure	
		Mexico				
	Product/Ingredient Name	Result	Species	Dose	Exposure	
		T <u>-</u>				
	Chronic Toxicity		ed or prolonged exp ory tract irritation.	osure to spray or	mist may produce	
			o known significant e	ffects or critical haza	ards.	
		Fves: N	lo known significant e	ffects or critical haza	ards	
	Irritation/Corrosion		-			
		Respiratory: Repeated or prolonged exposure to sproduce respiratory tract irritation.  Skin: No specific information is available reg sensitizing properties of this product. Sensitization humans.  Respiratory: Sensitization not expected for human There is no data on the preparation itself. Ca suspected for humans.  There is no data on the preparation itself. If		spray or mist may		
	Compiting			on not expected for		
	Sensitizer					
	Carcinogenicity			preparation itself. (	. Carcinogenicity not	
	Mutagenicity			Mutagenicity not		
			ed for humans. is no data on the	preparation itself.	Teratogenicity not	
	Teratogenicity	suspect	ed for humans.			
	Reproductive Toxicity		s no data on the pr ous to humans.	eparation itself. Not	t considered to be	
12.	Ecological Data	Notro	dily biodogradable			
	Ecotoxicity		dily biodegradable			
		United States				
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability		oduct has not been adable. This produc			
		through food chains in the environment.				
		Ca	ınada			
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability		oduct has not been adable. This produc			
	reisistence/Degradability		food chains in the en		to bloacculumate	
		M	exico			
	Aquatic Ecotoxicity	There is	s no data available on	the preparation itse	lf	
		This pr	oduct has not been	tested for biodegra	dation. Not readily	
	Persistence/Degradability		adable. This product food chains in the en		to bioacculumate	
		till odgil	.coa criamo in trio cr			

13.	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 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 %
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				
16.	Other Information					
70.	Other Information	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE				
	Labeling Requirements	HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED				
	Hazardous Material Information System	HEALTH 1 HMIS Ratings are based on a 0-4 scale, with 0 representing minimal				
	(USA)	REACTIVITY 0 hazards or risks, and 4				
	(00/1)	PERSONAL representing significant hazards or risks.				
		ble 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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