ECL
A QUAKER CHEMICAL COMPANY

Innovation and Experience at Work

Material Safety Data Sheet

ViscoTech R292

1.	***Substance, Preparation, and Company Description***	
	Material Uses	Lubricant, Grease, Industrial applications
	Manufacturer	Engineered Custom Lubricants (ECL) 3851 Exchange Ave. Aurora, IL 60504 630-449-5000
	Product Code	ViscoTech R292
	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
	Potential 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-exposure signs/symptoms	
	Inhalation	No specific data
	Ingestion	No specific data
	Skin	No specific data

	Eyes	No specific data
	Medical conditions aggravated by over-exposure	None known

3. *Composition/Component Data*

Name	CAS Number	EINECS Number	%

No Hazardous or Reportable Ingredients

4. *First Aid Measures*

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms occur.
Ingestion	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.
Protection for first-aiders	No action shall be taken involving any personal risk or without suitable training.
Note to Physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. *Firefighting Measures*

Suitable Extinguishing Media	Dry Chemical, CO_2, 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 any personal risk or without suitable training.
Hazardous thermal decomposition products	Burning may produce carbon monoxide, carbon dioxide, formaldehyde, as well as small amounts of other toxic fumes.
Special protective equipment for firefighters	Fire-fighters should wear protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. *Accidental Release Measures*

Personal Precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protection equipment (see Section 8).

	Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, 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 Storage***	
	Handling	Put on appropriate personal protection equipment (see section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
	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 and Personal Protective Equipment***	

United States

Occupational Exposure Limits	
Ingredient	**Exposure Limits**
Oil mist in air. OSHA Regulation 29: CFR 1910.1000	5 mg/m^3

Canada

Occupational Exposure Limits				
Ingredient	**List Name**	**TWA (8 Hours)**	**STEL (15 mins)**	**Ceiling**

Mexico

Occupational Exposure Limits	
Ingredient	**Exposure Limits**

	Recommended Monitoring 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	No specific ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

	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***	
	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	0.96 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
	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
	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.

11. *Toxicological Data*

Acute Toxicity: None known

United States

Product/Ingredient Name	Result	Species	Dose	Exposure

Canada

Product/Ingredient Name	Result	Species	Dose	Exposure

Mexico

Product/Ingredient Name	Result	Species	Dose	Exposure

Chronic Toxicity	Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.
Irritation/Corrosion	**Skin:** No known significant effects or critical hazards. **Eyes**: No known significant effects or critical hazards. **Respiratory:** Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.
Sensitizer	**Skin:** No specific information is available regarding the skin sensitizing properties of this product. Sensitization not expected for humans. **Respiratory:** Sensitization not expected for humans.
Carcinogenicity	There is no data on the preparation itself. Carcinogenicity not suspected for humans.
Mutagenicity	There is no data on the preparation itself. Mutagenicity not suspected for humans.
Teratogenicity	There is no data on the preparation itself. Teratogenicity not suspected for humans.
Reproductive Toxicity	There is no data on the preparation itself. Not considered to be dangerous to humans.

12. *Ecological Data*

Ecotoxicity	Not readily biodegradable
United States	
Aquatic Ecotoxicity	There is no data available on the preparation itself
Persistence/Degradability	This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioacculumate through food chains in the environment.
Canada	
Aquatic Ecotoxicity	There is no data available on the preparation itself
Persistence/Degradability	This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioacculumate through food chains in the environment.
Mexico	
Aquatic Ecotoxicity	There is no data available on the preparation itself
Persistence/Degradability	This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioacculumate through food chains in the environment.

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

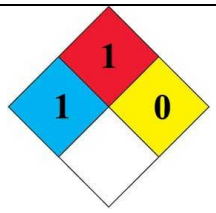
Regulatory Information	UN Number	Proper Shipping Name	Classes	Packing Group	Label	Additional Information
DOT Classification	Not Regulated					
TDG Classification	Not Regulated					
Mexico Classification	Not Regulated					
ADR/RID Class	Not Regulated					
IMDG Class	Not Regulated					
IATA-DGR Class	Not 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			

	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** B **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.	
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	Prepared by:	ECL Research and Development Department

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