

## **Material Safety Data Sheet**

Innovation and Experience at Work

## RheoGel R501N

1.	Substance, Preparation, and Co	ompany Description		
	Material Uses	Lubricant, Grease, Industrial applications		
		Engineered Custom Lubricants (ECL)		
	Manufacturer	3851 Exchange Ave.		
		Aurora, IL 60504		
		630-449-5000		
	Product Code	RheoGel R501N		
	Validation Date	January 30, 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		
	nazaru Statements	WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.		
		While this material is not considered hazardous by the OSHA		
	00114/1100 015155	Hazard Communication Standard (29 CFR 1910.1200), this MSDS		
	OSHA/HCS Status	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.		
		otential 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.		
		ver-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	140	IIC KIIOWII			
	- CAPOCATO					
3.	Composition/Component Data					
	Name		CAS Number	EINECS Number	%	
	No Haz	ordou	s or Reportable Ingred	lionto		
	INOTIAZA	aruous	s of ixeportable ingred	ilei its		
A	First Aid Massures					
4.	First Aid Measures	Ch	ook for and ramage a	any contact lenses. Imm	odiatoly flush aves	
	Eye Contact			at least 15 minutes, occ		
	Lyc Johnson			Get medical attention if s		
				ediately flush skin with ple		
	Skin Contact	lea	least 15 minutes while removing contaminated clothing and shoes.			
	Okin Contact		_	euse. Get medical atte	ntion if symptoms	
		000		a frach air. If not broath	ing if broathing is	
			Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration			
	Inhalation		or oxygen by trained personnel. Loosen tight clothing such as a			
				tband. Get medical atte		
		occ				
	In weather			iter. Do not induce vomit		
	Ingestion	line	no so my medical per conscious person. Get	sonnel. Never give anyth	ntoms occur	
		No	unconscious person. Get medical attention if symptoms occur.  No action shall be taken involving any personal risk or without			
	Protection for first-aiders		table training.			
			No specific treatment. Treat symptomatically. Contact poison			
	Note to Physician			mediately if large qua	ntities have been	
		ıng	ested or inhaled.			
	Eirofighting Mossures					
5.	Firefighting Measures Suitable Extinguishing Media	Dr	Chemical, CO <sub>2</sub> Foar	n or Water Foo		
	Suitable Extiliguisilling Media			ne by removing all perso	ns from the vicinity	
	Special Exposure Hazards			s a fire. No action shall		
		any	personal risk or with	out suitable training.		
	Hazardous thermal decomposition			e carbon monoxide,		
	products			small amounts of other		
	Special protective equipment for			r protective equipment		
	firefighters		atning apparatus (S sitive pressure mode.	CBA) with a full face-	piece operated in	
		1	p. 3000010 111000.			
6.	Accidental Release Measures					
	- I - I - I - I - I - I - I - I - I - I	No	action shall be take	en involving any persor	nal risk or without	
		sui	table training. Evacua	ate surrounding areas.	Keep unnecessary	
	Personal Precautions			nel from entering. Do		
				. Put on appropriate p	ersonal protection	
		equ	equipment (see Section 8).			

	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 up	)	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 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 ignated, labeled waste ste disposal contractor. information and section
7.	Handling and Sto	rage			
	Handling		Eating, drinking, and 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 ressed. Workers should drinking, and smoking. rective 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 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	and Personal Prote	ctive Equipment		
			United States		
		Ingredient	upational Exposure L	imits Exposure Lin	nits
				<b>,</b>	
			Canada		
				,	
	Ingredient	Occu List Name	upational Exposure L TWA (8 Hours)	imits STEL (15 mins)	Ceiling
	Ingredient		upational Exposure L TWA (8 Hours)		Ceiling
	Ingredient	List Name	upational Exposure L TWA (8 Hours) Mexico	STEL (15 mins)	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  Recommended Monit	Occu Ingredient	Mexico upational Exposure L  Mexico upational Exposure L  If this product conta workplace, atmosph determine the effe	Exposure Line  ains ingredients with exere, or biological monitoriveness 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.
	Р	ersonal 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
	рН	Not Available
	Boiling/condensation Point	Not Available
	Melting/freezing Point	Not Available
	Density	0.97 g/cm <sup>3</sup>
	Vapor Pressure	Not Available
	Vapor Density	Not Available
	Volatility  Even protein Data	Not Available Not Available
	Evaporation Data 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
	Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous
	Possibility of Hazardous Reactions	decomposition product should not be produced.  Under normal conditions of storage and use, hazardous reactions will not occur.
		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	1		
	Product/Ingredient Name	Result	Species	Dose	Exposure	
		T <u>-</u>				
	Chronic Toxicity		ed or prolonged exports or tract irritation.	osure to spray or	mist may produce	
			lo known significant e	ffects or critical haza	ards.	
		Fves: N	No known significant e	ffects or critical haz	ards	
	Irritation/Corrosion		_			
			atory: Repeated or pre- e respiratory tract irrita		o spray or mist may	
		Skin:	No specific informa	tion is available r		
	Compiting		ing properties of this	product. Sensitization	on not expected for	
	Sensitizer	humans	5.			
			atory: Sensitization no			
	Carcinogenicity		is no data on the late ted for humans.	preparation itself. (	Sarcinogenicity not	
	Mutagenicity	There is no data on the preparation itself suspected for humans.  There is no data on the preparation itself.		preparation itself.	itself. Mutagenicity not	
				Teratogenicity not		
	Teratogenicity	suspec	ted for humans.			
	Reproductive Toxicity		is no data on the prous to humans.	eparation itself. Not	t considered to be	
12.	Ecological Data	Not roo	dily biodegradable			
	Ecotoxicity	l l	, ,			
			ed States			
	Aquatic Ecotoxicity		s no data available on oduct has not been			
	Persistence/Degradability		adable. This produc			
	,	through	food chains in the en	vironment.		
		Canada				
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability		oduct has not been			
	1 crosscribe/Degradability	biodegradable. This product is not expected to bioaccuthrough food chains in the environment.		to bloadoulamate		
		M	exico			
	Aquatic Ecotoxicity		s no data available on			
		This pr	oduct has not been	tested for biodegra	dation. Not readily	
	rersistence/Degradability		adable. This product food chains in the en		to bioacculumate	
	Aquatic Ecotoxicity  Persistence/Degradability	This pr biodegr	oduct has not been adable. This produc	tested for biodegra	dation. Not readily	

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	litional 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 %
	Product Name	Product Name CAS Number

		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  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	January 30, 2015			
	Version	2			
	Changes from Previous Version	Yes			
	Prepared by:	ECL Research and Development Department			

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