

Material Safety Data Sheet

Innovation and Experience at Work

RheoGel PA2110N-1

1.	Substance, Preparation, and Company Description				
	Material Uses	Lubricant, Grease, Industrial applications			
		Engineered Custom Lubricants (ECL)			
	Manufacturer	3851 Exchange Ave.			
	Manulacturer	Aurora, IL 60504			
		630-449-5000			
	Product Code	RheoGel PA2110N-1January 29, 2015			
	Validation Date				
	In case of emergency contact	1-630-449-5000			
2.	Hazards Identification				
		Emergency Overview			
	Physical State	Semi-solid, grease			
	Color	Off-white to tan			
	Odor	Mild petroleum odor			
	Hazard Statements	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.			
		While this material is not considered hazardous by the OSHA			
		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			
		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.			
		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.			
		exposure signs/symptoms			
	Inhalation	No specific data			
	Ingestion	No specific data			
	Skin	No specific data			

[Eyes Medical conditions aggravated by over- exposure		specific data				
3.							
	Composition/Component Data						
	News						
-	Name		CAS Number	EINECS Number	%		
	No Haza	rdous	s or Reportable Ingred	ients			
4.	First Aid Measures						
				ny contact lenses. Imme			
E	Eye Contact			at least 15 minutes, occ			
		upper and lower eyelids. Get medical attention if symptoms occ In case of contact, immediately flush skin with plenty of water					
				emoving contaminated c			
	Skin Contact				medical attention if symptoms		
		occur.					
		Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration					
	Inhalation			arrest occurs, provide a ersonnel. Loosen tight c			
•				band. Get medical atte			
		occ	sur.				
			Wash out mouth with water. Do not induce vomiting unless directed				
	Ingestion	to do so my medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.					
		No actio					
F	Protection for first-aiders	No action shall be taken involving any personal risk or with suitable training.					
	No specific treatment. Treat symptomatically. Co						
1	Note to Physician			mediately if large quar	ntities have been		
-		ing	ested or inhaled.				
5.	Firefighting Measures	1					
	Suitable Extinguishing Media Dry Chemical, CO ₂ , Foam. or Water Fog						
				ne by removing all persor	ns from the vicinity		
	Special Exposure Hazards	of the incident if there is a fire. No action shall be taken involving					
		any personal risk or without suitable training.					
	Hazardous thermal decomposition	Burning may produce carbon monoxide, carbon dioxide, formaldehyde, as well as small amounts of other toxic fumes.					
-	products	_					
	Special protective equipment for		Fire-fighters should wear protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in				
t	firefighters	positive pressure mode.					
6. /	Accidental Release Measures				-1 -2 -1 - 50 - 5		
				en involving any person			
I	Personal Precautions			ate surrounding areas. A nel from entering. Do i			
				. Put on appropriate p			
			ipment (see Section 8				

	Environmental Preca	utions	waterways, di product has	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, and several authorities).		
	Methods for Clean up		 soil, or air). 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. 			beled waste container. htractor. htrae. Prevent entry into fined areas. Vacuum or ignated, labeled waste ste disposal contractor.
7.	Handling and Stor	rage				
	Handling		Eating, drinki this material wash hands	ng, and is hand and f taminat	l smoking should be pr dled, stored, and proc ace before eating, c ed clothing and prote	ipment (see section 8). ohibited in areas where essed. Workers should frinking, and smoking. ctive equipment before
	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 Prote	ctive Equip	nont		
0.			United Sta			
			upational Expo	sure Li		•
		Ingredient	Exposure Limits Canada upational Exposure Limits			
	Ingredient	List Name	TWA (8 Hou	urs)	STEL (15 mins)	Ceiling
			Mexico		mito	
		Ingredient	upational Exposure Limits Exposure Limits		nits	
	Recommended Monit	workplace, at determine th measures an equipment.	mosphe e effec nd/or t	ere, or biological monito ctiveness of the venti he necessity to use	posure limits, personal, pring may be required to lation or other control respiratory protective	
		should be s	sufficier	t to control worker	ood general ventilation exposure to airborne iredients with exposure	

Hygiene Measuresend 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 ProtectionRespiratoryUse 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.HandsChemical-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.EyesSafety 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.							
Use properly fitted, air-purifying or air fed respirator complying with an approved standard if a fisk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the sale 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 eyewarc complying with an approved standard should be worn at all times when handling the products if a risk assessment indicates this is necessary. Skin Desconstructure of the skip being performed and the risks involved and should be approved by a specialist before handling this product. Environmental Exposure Controls Emissions from ventifation or work process equipment should be created to ensure they comply with the requirements or environmental protection legislation. In some cases, fune 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 Methagitreezing Point Not Available Methagitreezing Point Not Available Methagitreezing Point Not Available Vapor Pressure			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.				
Respiratory an approved standard if a fisk assessment indicates this is a conserved. 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, imperivous 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 exposures to liquid splashes, mists, or dusts. Fersonal 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, furne scrubbers, filters or engineering modifications to acceptable levels. 9. Physical and Chemical Properties Physical State Semi-solid, grease Flash Point Not Available Auto-ignition Temperature Not Available Color Off-white to tan Odor Mid petroleum odor pH Not Available Vapor Pressure Not Available Vapor Pressure Not Available Vapor Pressure		F	Personal Protection				
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Hazardous Decomposition Products decomposition product should not be produced. Dessibility of Hazardous Products Under normal conditions of storage and use, hazardous reactions		Incompatible Materials					
		Hazardous Decomposition Products	decomposition product should not be produced.				
		Possibility of Hazardous Reactions					

11.	Toxicological Data							
	Acute Toxicity: None known							
	Product/Ingredient Name	Result	ed States Species	Dose	Exposure			
	Canada							
	Product/Ingredient Name	Result	Species	Dose	Exposure			
		Mexico						
	Product/Ingredient Name	Result	Species	Dose	Exposure			
	Chronic Toxicity	respira	ted or prolonged exp tory tract irritation.					
			No known significant ef					
	Irritation/Corrosion		No known significant e atory: Repeated or pro					
		produc	e respiratory tract irrita	tion.				
	Sensitizer	Skin: No specific information is available re- sensitizing properties of this product. Sensitization humans.						
		Respir	atory: Sensitization no	ot expected for hum	ans.			
	Carcinogenicity	suspec	ted for humans.	•	0, 1			
	Mutagenicity	suspec	is no data on the ted for humans.		U P			
	Teratogenicity	suspec	There is no data on the preparation itself. Teratogenicity not suspected for humans.					
	Reproductive Toxicity		is no data on the pre ous to humans.	eparation itself. No	t considered to b			
12.	Ecological Data							
	Ecotoxicity		idily biodegradable					
	Aquatic Ecotoxicity		s no data available on	the preparation itse	lf			
	Persistence/Degradability	This p biodeg	roduct has not been radable. This product n food chains in the en	tested for biodegra t is not expected	dation. Not readil			
		Canada						
Aquatic Ecotoxicity There is no data available on the prepa								
	Persistence/Degradability	stence/DegradabilityThis product has not been tested for biodegradatic biodegradable. This product is not expected to through food chains in the environment.						
		Μ	exico					
	Aquatic Ecotoxicity		s no data available on					
	Persistence/Degradability	This p biodeg	roduct has not been radable. This produc n food chains in the en	tested for biodegra t is not expected	dation. Not readil			

40	Dianagol Considerations					
13.	Disposal Considerations					
<u> </u>	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					
	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					
10.	NOT EXPECTED TO PRODUCE SIGNIFICANT					
	Labeling Requirements	HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED				
	Hazardous Material Information System (USA)	m FLAMMABILITY 1 on a 0-4 REACTIVITY 0 hazards PERSONAL B represent		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	e for determining the PPE co	ode for this r	material.		
	Date of Issue	January 29, 2015				
	Version	2				
	Changes from Previous Version	Yes				
	Prepared by:	ECL Research and Developr	nent Departn	nent		
	Notice to reader: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPREST DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FO PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Appropriate warnings and safe hand procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Engineered Custom Lubricants assume no responsibility for accuracy of information unless the document is the most current available from an official Engineered Custom Lubricants neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.					