

Material Safety Data Sheet

Innovation and Experience at Work

UltraSil 4513

1.	Substance, Preparation, and Company Description		
	Material Uses	Lubricant, Grease, Industrial applications	
		Engineered Custom Lubricants (ECL)	
	Manufacturer	3851 Exchange Ave.	
		Aurora, IL 60504	
		630-449-5000	
	Product Code	UltraSil 4513	
	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	Off-white	
	Odor	Nearly odorless	
	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	
		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	
	•	tential 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.	
		ential 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	r-exposure signs/symptoms	
	Inhalation	No specific data	
	Ingestion	No specific data	

	Skin		lo specific data				
	Eyes		lo specific data				
	Medical conditions aggravated by over-		lone known				
	exposure	'	ione known				
3.	Composition/Component Data	<u> </u>					
	Name		CAS Number	EINECS Number	%		
	No Haz	ardo	ous or Reportable Ingredier	nts			
4.	First Aid Measures						
			Check for and remove any				
	Eye Contact		vith plenty of water for at I				
			pper and lower eyelids. Gentage and lower eyelids. Gentage of contact, immediate in the contact				
		16	east 15 minutes while rem	oving contaminated cl	othing and shoes.		
	Skin Contact		Vash clothing before reus				
			ccur.				
			Nove exposed person to f				
	lub alatian		regular or if respiratory ar				
	Inhalation		r oxygen by trained personal articles bolt or waistha				
			collar, tie, belt, or waistband. Get medical attention if symptoms occur.				
			Vash out mouth with water	. Do not induce vomiti	ng unless directed		
	Ingestion	to	o do so my medical persor	nnel. Never give anythi	ng by mouth to an		
			nconscious person. Get m				
	Protection for first-aiders		lo action shall be taken	involving any person	al risk or without		
			uitable training. lo specific treatment. T	reat symptomatically	Contact poison		
	Note to Physician		reatment specialist imme				
			ngested or inhaled.				
5.	Firefighting Measures						
	Suitable Extinguishing Media		Ory Chemical, CO _{2,} Foam. o				
	Out of all France course Harmon Is		Promptly isolate the scene				
	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 dioxide,		
	products		ormaldehyde, as well as sn				
	•		ire-fighters should wear p				
	Special protective equipment for firefighters		reathing apparatus (SCB	A) with a full face-p	piece operated in		
	The righters	p	ositive pressure mode.				
_	Assidental Palaca Maria						
6.	Accidental Release Measures	1	la antina abell to (et	tarratida a la companya	al state as 190 c. c.		
			lo action shall be taken uitable training. Evacuate				
	Personal Precautions						
	. c.condi i rodddiono	and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protection					
		е	quipment (see Section 8).		•		
		Α	void dispersal of spilled n	naterial and runoff and	contact with soil,		
	Environmental Precautions		vaterways, drains, and sew				
			roduct has caused enviro	onmental pollution (se	ewers, waterways,		
		S	oil, or air).				

	Methods for Clean up		material Dispose of Large sp sewers, v sweep u container Note: See	and place of via a licen oill: Move o vater course p material . Dispose	in a designated, lat sed waste disposal con- containers from spill a es, basements, or con- and place in a des of via a licensed was for emergency contact	a. Vacuum or sweep up beled waste container. Intractor. Information and section	
7.	Handling and Stor	rage					
	Handling		Eating, d this mate wash ha Remove entering	rinking, and rial is hand nds and f contaminate eating areas	smoking should be prodled, stored, and procace before eating, ced clothing and prote	ripment (see section 8). Tohibited in areas where essed. Workers should drinking, and smoking. Ctive equipment before	
	Storage		container ventilated and food ready for resealed unlabeled	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 a	nd Personal Prote	ctive Equ	uipment			
		Occi		United States pational Exposure Limits			
		Ingredient	Exposure Limits				
			Canada				
	Ingredient	List Name	upational Exposure Limits TWA (8 Hours) STEL (15 mins) Ceiling			Ceiling	
	iiigi odioiit	Liot Hailio	1117 (0		5122 (10 mmo)	Coming	
		Mexico					
		upational Exposure Limits					
	Ingredient				Exposure Lin	nits	
	Recommended Monitoring Procedures workplace, determine			this product contains ingredients with exposure limits, personal, rkplace, atmosphere, or biological monitoring may be required to termine the effectiveness of the ventilation or other control easures and/or the necessity to use respiratory protective upper			
	Engineering Measures	3	should be contaminated limits, us engineeri	e sufficien ants. If this e process ng control	t to control worker product contains ing enclosures, local exha	ood general ventilation exposure to airborne gredients with exposure aust ventilation or other exposure below any	

		Wash hands, forearms and face thoroughly after handling chemical
	Hygiene Measures	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	
9.	Physical State	Semi-solid, grease
	Flash Point	Not Available
	Auto-ignition Temperature	Not Available Not Available
	Flammable Limits	Not Available Not Available
	Color	Off-white
	Odor	Nearly odorless
	pH	Not Available
	Boiling/condensation Point	Not Available
	Melting/freezing Point	Not Available Not Available
	Density	1.0 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
40	Otal-lite and was at it	
10.	Stability and reactivity	The war distinguishing
	Chemical Stability	The product is stable
	Conditions to avoid	No specific data No specific data
	Incompatible Materials	
	Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition product should not be produced. Under normal conditions of storage and use, hazardous reactions
	Possibility of Hazardous Reactions	will not occur.
	I .	

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
			exico	1	
	Product/Ingredient Name	Result	Species	Dose	Exposure
		F _			
	Chronic Toxicity		ed or prolonged exp ory tract irritation.	osure to spray or	mist may produce
			lo known significant e	ffects or critical haza	ards.
		Fves: N	lo known significant e	ffects or critical haza	ards
	Irritation/Corrosion		-		
			atory: Repeated or pre- e respiratory tract irrita		spray or mist may
		Skin:	No specific informa	tion is available re	
	Sensitizer	sensitiz humans	ing properties of this	product. Sensitization	on not expected for
	Sensitizer	Tiumans	.		
			atory: Sensitization no		
	Carcinogenicity	There is no data on the preparation itself. Carcinog suspected for humans. There is no data on the preparation itself. Mutag suspected for humans. There is no data on the preparation itself. Teratog suspected for humans. There is no data on the preparation itself. Not consider dangerous to humans.		•	
	Mutagenicity			Mutagenicity not	
	Teratogenicity			Teratogenicity not	
				t considered to be	
	Reproductive Toxicity			considered to be	
40	Factoriaal Data				
12.	Ecological Data Ecotoxicity	Not rea	dily biodegradable		
		United States There is no data available on the preparation itself			
	Agustia Esstavisity			ı f	
	Aquatic Ecotoxicity		oduct has not been		
	Persistence/Degradability	biodegr	adable. This produc	t is not expected	
		<u> </u>	food chains in the en	vironment.	
			anada		
	Aquatic Ecotoxicity		s no data available on oduct has not been		
	Persistence/Degradability	biodegr	adable. This produc	t is not expected	
		through	food chains in the en	vironment.	
		M	exico		
	Aquatic Ecotoxicity		s no data available on		
	Persistence/Degradability		oduct has not been adable. This produc		
			food chains in the en		

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 addit	ional 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

<i>15.</i>	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		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: 0 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 FLAMMABILITY REACTIVITY 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	February 3, 2015				
	Version	2				
	Changes from Previous Version	Yes				
	Prepared by:	ECL Research and Development Department				

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