

Material Safety Data Sheet

Innovation and Experience at Work

IsoTech 417

	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	IsoTech 417			
	Validation Date	October 10, 2014			
In case of emergency contact		1-630-449-5000			
	In case of emergency contact				
2.	Hazards Identification				
		Emergency Overview			
	Physical State	Liquid, lubricant			
	Color	Cloudy white			
	Odor	Mild peteroleum odor			
		NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS			
	Hazard Statements	WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.			
		While this material is not considered hazardous by the OSHA			
	OSUA/UCS Status	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.			
		No known significant effects of critical hazards.			

	Inhalation	No	specific data				
			specific data				
	Ingestion Skin						
		No specific data No specific data					
	Eyes						
	Medical conditions aggravated by over-	- None known					
	exposure						
3.	Composition/Component Data						
<u>J.</u>							
	Name		CAS Number	EINECS Number	%		
					,,,		
	No Haz	ardou	s or Reportable Ingredi	ents			
4.	First Aid Measures						
		Ch	eck for and remove a	ny contact lenses. Imme	ediately flush eyes		
	Eye Contact			t least 15 minutes, occa			
				Get medical attention if s			
				diately flush skin with ple			
	Skin Contact			moving contaminated cl			
				euse. Get medical atter	ntion if symptoms		
		occur. Move exposed person to fresh air. If not breathing, if breathin irregular or if respiratory arrest occurs, provide artificial respira					
	hah a lation						
	Inhalation	 or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms occur. Wash out mouth with water. Do not induce vomiting unless directed to do so my medical personnel. Never give anything by mouth to an 					
					na unless directed		
	Ingestion						
	ingestion			medical attention if symp			
				n involving any person			
	Protection for first-aiders		table training.				
		No	specific treatment.	Treat symptomatically.	Contact poison		
	Note to Physician	trea	atment specialist imn	nediately if large quar	tities have been		
		ing	ested or inhaled.				
~	Finalish (inc. Magazing)						
5.	Firefighting Measures Suitable Extinguishing Media	Dn	Chemical, CO _{2,} Foam	or Water Fog			
				e by removing all persor	s from the vicinity		
	Special Exposure Hazards			a fire. No action shall h			
			personal risk or witho				
	Hazardous thermal decomposition				carbon dioxide		
	products	Burning may produce carbon monoxide, carbon dioxid formaldehyde, as well as small amounts of other toxic fumes. Fire-fighters should wear protective equipment and self-contain breathing apparatus (SCBA) with a full face-piece operated					
	Special protective equipment for						
	firefighters	positive pressure mode.					
	Assistantial Delegas Massima						
6.	Accidental Release Measures	N 1	antine shall be the	a dan saladar a sa	al dala da 191 d		
	n involving any person						
	Personal Precautions	suitable training. Evacuate surrounding areas. Keep unnecessary					
	Personal Precautions and unprotected personnel from entering. Do not touch of through spilled material. Put on appropriate personal pro- equipment (see Section 8).						
L		equ).			

	Environmental Preca	utions	waterways, dra	ains, a	nd sewers. Inform the r	off and contact with soil, elevant authorities if the on (sewers, waterways,
	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. 			
7.	Handling and Sto	rage				
	Handling		Eating, drinkin this material wash hands	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		
	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	 octive Equipn	nont		
0.			United Stat			
			upational Expos	sure L		
		Ingredient	Exposure Limits			lits
		000	Canada upational Expos		imite	
	Ingredient	List Name	TWA (8 Hou		STEL (15 mins)	Ceiling
	J			-7		J
		000	Mexico upational Expos	sure l	imits	
		Ingredient			Exposure Lin	nits
					•	
	Recommended Monit	workplace, atr determine the measures an equipment.	nosphe e effec id/or t	ere, or biological monito ctiveness of the venti the necessity to use	posure limits, personal, pring may be required to lation or other control respiratory protective	
	Engineering Measure	should be s contaminants. limits, use pro engineering	ufficier If this ocess control	nt to control worker s product contains ing enclosures, local exha	ood general ventilation exposure to airborne predients with exposure nust ventilation or other exposure below any	

	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	
-	Physical State	Liquid, lubricant
	Flash Point	Not Available
	Auto-ignition Temperature	Not Available
	Flammable Limits	Not Available
	Color	Cloudy white
	Odor	Mild peteroleum odor
	pH	Not Available
	Boiling/condensation Point	Not Available
	Melting/freezing Point	Not Available
	Density	0.8 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						
	Product/Ingredient Name	Result	ed States Species	Dose	Exposure		
		C	anada	1			
	Product/Ingredient Name	Result	Species	Dose	Exposure		
		Mexico					
	Product/Ingredient Name	Result	Species	Dose	Exposure		
		Repeat	ed or prolonged exp	osure to spray or	mist may produce		
	Chronic Toxicity	respirat	ory tract irritation.				
			Ū				
	Irritation/Corrosion		lo known significant e				
		produce	atory: Repeated or pro- e respiratory tract irrita	ition.			
	Sensitizer			egarding the skin on not expected for			
			ot expected for hum				
	Carcinogenicity	suspec	is no data on the p ted for humans.	•	Ç ,		
	Mutagenicity	suspec	is no data on the ted for humans.	• •	C <i>i</i>		
	Teratogenicity		is no data on the ted for humans.	preparation itself.	Teratogenicity not		
	Reproductive Toxicity	There is no data on the preparation itself. Not considered to l dangerous to humans.					
12.	Ecological Data						
	Ecotoxicity		dily biodegradable				
			d States				
	Aquatic Ecotoxicity Persistence/Degradability	This pr biodegr	s no data available on oduct has not been adable. This produc food chains in the en	tested for biodegra t is not expected	adation. Not readily		
		Canada					
	Aquatic Ecotoxicity		the preparation itse				
	Persistence/Degradability	This product has not been tested for biodegradation. It biodegradable. This product is not expected to bioa through food chains in the environment.					
	Aquatic EcotoxicityThere is no data available on the preparation itsPersistence/DegradabilityThis product has not been tested for biodeg biodegradable. This product is not expected through food chains in the environment.				adation. Not readily		

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13.							
<u> </u>	Waste Disposal	The generation of waste should be avoided or minimized whereve possible. Significant quantities of waste product residues should no 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 o spilled material and run-off and contact with soil, waterways, drains and sewers.					
	Disposal should be in acc	ordance 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 Informatio						
14.		טונ. עריין אינער אינ					

Regulatory Information	UN Number	Proper Shipping Name	Classes	Packing Group	Label	Additional Information
				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 e				
		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)	em FLAMMABILITY 1 on a repre REACTIVITY 0 hazar PERSONAL B repre		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	de for this	material.		
	Date of Issue	October 10, 2014				
	Version	2				
	Changes from Previous Version	Yes				
	Prepared by:	ECL Research and Developn	nent Depar	tment		
	product for particular uses are beyond our control; all ris DISCLAIM ALL WARRANTIES OF EVERY KIND AND NA PARTICULAR PURPOSE IN RESPECT TO THE USE procedures should be provided to handlers and users. Alte no responsibility for accuracy of information unless the do	rmation given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the a are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY TIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Appropriate warnings and safe handling rided to handlers and users. Alteration of this document is strictly prohibited. Engineered Custom Lubricants assumes acy of information unless the document is the most current available from an official Engineered Custom Lubricants m Lubricants neither represents nor warrants that the format, content or product formulas contained in this document y other country except the United States of America.				