

Material Safety Data Sheet

Innovation and Experience at Work

IsoTech 529

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	IsoTech 529			
Validation Date		October 10, 2014			
	In case of emergency contact	1-630-449-5000			
2.	Hazards Identification				
<u>L</u> .		mergency Overview			
	Physical State	Liquid, lubricant			
	Color	Light yellow			
	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			
		tial 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.			
	Potent	ial 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			
			specific data			
	Ingestion Skin		specific data			
			specific data			
	Eyes					
	Medical conditions aggravated by over-	INO	None known			
	exposure					
3.	Composition/Component Data					
Ο,						
	Name		CAS Number	EINECS Number	%	
					,,,	
	No Haz	ardou	s or Reportable Ingredi	ents		
4.	First Aid Measures					
				ny contact lenses. Imme		
	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	
		000		frach air. If not broathi	na if broothing io	
		Move exposed person to fresh air. If not breathing, if breathing				
	Inhalation	 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. Wash out mouth with water. Do not induce vomiting unless directed to do so my medical personnel. Never give anything by mouth to an 				
	Innalation					
	Ingestion					
				medical attention if symp		
	Protostion for first siders			n involving any person		
	Protection for first-aiders	sui	table training.	0 7 1		
		No	specific treatment.	Treat symptomatically.	Contact poison	
	Note to Physician	trea	atment specialist imn	nediately if large quar	ntities have been	
		ing	ested or inhaled.			
-	Finalish ting Magazine a					
5.	Firefighting Measures Suitable Extinguishing Media	Dry	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 dioxic formaldehyde, as well as small amounts of other toxic fumes.				
	•	Fire-fighters should wear protective equipment and self-contai				
	Special protective equipment for	breathing apparatus (SCBA) with a full face-piece operate				
	firefighters	positive pressure mode.				
6.	Accidental Release Measures			· · · ·		
				n involving any person		
	Demonstration (in the			te surrounding areas. k		
	Personal Precautions and unprotected personnel from entering. Do not touch					
through spilled material. Put on appropriate person					ersonal protection	
		equ	uipment (see Section 8).		

	Environmental Preca	utions	waterways, o 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, soil or air)			
	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 Stor	rage					
	Handling		Eating, drink this materia wash hand	king, and I is hand s and f ntaminat	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 Irinking, and smoking. ctive equipment before	
	Storage		Store in accordance with local regulations. Store in ori container protected from direct sunlight in a dry, cool, and ventilated area, away from incompatible materials (see section and food and drink. Keep container tightly closed and sealed ready for use. Containers that have been opened must be care resealed and kept upright to prevent leakage. Do not stor unlabeled containers. Use appropriate containment to a environmental contamination.			a dry, cool, and well- aterials (see section 10) closed and sealed until bened must be carefully kage. Do not store in	
8.	Exposure Limits a	and Personal Prote	 ctive Equir	mont			
0.			United St				
			upational Exp	osure Li	mits Exposure Lim	140	
		Ingredient	•			11.5	
		Occi	Canada upational Exposure Limits				
	Ingredient	List Name	TWA (8 Ho	ours)	STEL (15 mins)	Ceiling	
			Mexic		mits	 	
		Ingredient	upational Exposure Limits Exposure Limits		nits		
	Recommended Monit	workplace, a determine t measures equipment.	atmosphe he effec and/or t	ere, or biological monito tiveness of the venti he necessity to use	posure limits, personal, oring may be required to lation or other control respiratory protective		
	Engineering Measure	should be	sufficien		ood general ventilation exposure to airborne redients with exposure		

	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	Light yellow
	Odor	Mild petroleum 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		
	Product/Ingredient Name	C Result	anada Species	Dose	Exposure		
	Product/Ingredient Name	N Result	lexico Species	Dose	Exposure		
		Result					
	Chronic Toxicity	respira	ted or prolonged expetence tory tract irritation.				
		Skin: Ւ	No known significant ef	fects or critical haza	ards.		
	Irritation/Corrosion	Eyes: 1	No known significant e	ffects or critical haz	ards.		
			atory: Repeated or pro		o spray or mist ma		
		Skin:	No specific informat	ion is available r			
	Sensitizer	sensitizing properties of this product. Sensitization not explanation humans.					
		Respir	ot expected for hum	ans.			
	Carcinogenicity	suspec	is no data on the p ted for humans.	•	Carcinogenicity no		
	Mutagenicity		is no data on the ted for humans.	preparation itself.	Mutagenicity no		
	Teratogenicity		is no data on the ted for humans.	preparation itself.	aration itself. Teratogenicity n		
	Reproductive Toxicity	There	There is no data on the preparation itself. Not considered to be dangerous to humans.				
12.							
12.	Ecological Data Ecotoxicity	Not rea	adily biodegradable				
		Unite	ed States				
	Aquatic Ecotoxicity		s no data available on				
	Persistence/Degradability	biodeg	roduct has not been radable. This produc n food chains in the en	t is not expected	idation. Not readil to bioacculumate		
		Canada					
	Aquatic Ecotoxicity	There i					
	Persistence/Degradability	This product has not been tested for biodegradati biodegradable. This product is not expected to through food chains in the environment.					
		Mexico					
	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		

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 w	vith 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 PROD	UCE SIGN	FICANT ADVERSE		
	Labeling Requirements	HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED				
	Hazardous Material Information System (USA)	HEALTH1HMIS Ratings are on a 0-4 scale, with representing minin hazards or risks, representing sign hazards or risks.HMIS Ratings are on a 0-4 scale, with representing minin hazards or risks, representing sign hazards or risks.				
	The customer is responsible	e for determining the PPE co	de for this	s 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 source. Engineered Custom Lubricants neither represents	er: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the lar uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY ARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A RPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Appropriate warnings and safe handling be provided to handlers and users. Alteration of this document is strictly prohibited. Engineered Custom Lubricants assumes or accuracy of information unless the document is the most current available from an official Engineered Custom Lubricants d Custom Lubricants neither represents nor warrants that the format, content or product formulas contained in this document vs of any other country except the United States of America.				