

Material Safety Data Sheet

Innovation and Experience at Work

IsoTech 1328

1.	Substance, Preparation, and Company Description	
	Material Uses	Lubricant, Grease, Industrial applications
		Engineered Custom Lubricants (ECL)
	Manufacturer	3851 Exchange Ave.
	Wallulactulei	Aurora, IL 60504
		630-449-5000
	Product Code	IsoTech 1328
	Validation Date	March 24, 2014
	In case of emergency contact	1-630-449-5000
2.	Hazards Identification	
	770247 40 14077477	Emergency Overview
	Physical State	Liquid, lubricant
	Color	Amber
	Odor	Characteristic 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
		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.
	P	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.
	O	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-	None known		
	exposure	TAOTIC KHOWII		
	exposure			
3.	Composition/Component Data			
ა.	Composition/Component Data			
	Name	CAS Number EINECS Number %		
	No Haza	ardous or Reportable Ingredients		
4.	First Aid Measures			
		Check for and remove any contact lenses. Immediately flush eyes		
	Eye Contact	with plenty of water for at least 15 minutes, occasionally lifting the		
		upper and lower eyelids. Get medical attention if symptoms occur.		
		In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.		
	Skin Contact	Wash clothing before reuse. Get 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	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		
	Ingestion	to do so my medical personnel. Never give anything by mouth to an		
		unconscious person. Get medical attention if symptoms occur.		
	Protection for first-aiders	No action shall be taken involving any personal risk or without		
		suitable training.		
	Note to Dhysician	No specific treatment. Treat symptomatically. Contact poison		
	Note to Physician	treatment specialist immediately if large quantities have been ingested or inhaled.		
		ingested of initialed.		
5.	Firefighting Measures			
<u> </u>	Suitable Extinguishing Media	Dry Chemical, CO _{2.} Foam. or Water Fog		
	Cultubio Extinguiorini g modia	Promptly isolate the scene by removing all persons 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,		
	products	formaldehyde, as well as small amounts of other toxic fumes.		
	Special protective equipment for	Fire-fighters should wear protective equipment and self-contained		
		breathing apparatus (SCBA) with a full face-piece operated in		
	firefighters	positive pressure mode.		
6.	Accidental Release Measures			
		No action shall be taken involving any personal risk or without		
	Barranal Brassa (f	suitable training. Evacuate surrounding areas. Keep unnecessary		
	Personal Precautions	and unprotected personnel from entering. Do not touch or walk		
		through spilled material. Put on appropriate personal protection		
		equipment (see Section 8).		

	Environmental Precau	utions	waterways, drains,	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 cour sweep up material container. Dispose	e in a designated, la ensed waste disposal co containers from spill a ses, basements, or cor I and place in a des of via a licensed wa I for emergency contact	a. Vacuum or sweep up beled waste container. ntractor. area. Prevent entry into fined areas. Vacuum or signated, labeled waste ste disposal contractor. information and section
7.	Handling and Stor	rage			
	Handling		Eating, drinking, and this material is had wash hands and	d smoking should be p ndled, stored, and prod face before eating, o ated clothing and prote	uipment (see section 8). rohibited in areas where essed. Workers should drinking, and smoking. ective equipment before
	Storage		container protected ventilated area, awa and food and drink ready for use. Cont resealed and kept	from direct sunlight in ay from incompatible m. Keep container tightly ainers that have been of upright to prevent leaders. 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 a	and Personal Prote	⊥ ective Eauipment		
			United States		
		Ingredient Occ	upational Exposure I	<u>-imits</u> Exposure Lir	nits
			Canada		
	Ingredient	List Name	upational Exposure I TWA (8 Hours)	STEL (15 mins)	Ceiling
			Mexico		
	Occu		upational Exposure I	imits	
		Ingredient		Exposure Lir	nits
			<u> </u>		
	Recommended Monit	oring Procedures	workplace, atmosph determine the effe	nere, or biological monit ectiveness of the vent	oring may be required to illation or other control e respiratory protective
	Engineering Measure	s	No specific ventile should be sufficie contaminants. If the	ent to control worker is product contains in	ood general ventilation exposure to airborne gredients with exposure aust ventilation or other

	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.	
	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	Liquid, lubricant	
	Flash Point	Not Available	
	Auto-ignition Temperature	Not Available	
	Flammable Limits	Not Available	
	Color	Amber	
	Odor	Characteristic odor	
	рН	Not Available	
	Boiling/condensation Point	Not Available	
	Melting/freezing Point	Not Available	
	Density	0.82 g/cm ³ Not Available	
	Vapor Pressure Vapor Density	Not Available Not Available	
	Volatility	Not Available Not Available	
	Evaporation Data	Not Available 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 United States				
	Product/Ingredient Name	Result	Species	Dose	Exposure
	-				
		Ca	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
			o known significant e	ffects or critical haza	ards.
		Fves: N	lo known significant e	ffects or critical haza	ards
	Irritation/Corrosion		-		
		Respiratory: Repeated or prolonged exposure to spray or mis produce respiratory tract irritation.		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. Carcinogenic suspected for humans. There is no data on the preparation itself. Mutagenic suspected for humans. There is no data on the preparation itself. Teratogenic			
	Mutagenicity			Mutagenicity not	
	Teratogenicity			Teratogenicity not	
			ed for humans. s no data on the pr	oparation itself. Not	t considered to be
	Reproductive Toxicity		ous to humans.	eparation itsell. Not	considered to be
40	Factoriaal Data				
12.	Ecological Data Ecotoxicity	United States There is no data available on the preparation itself This product has not been tested for biodegradation. Not readily			
	Agustia Esstavisity			ı f	
	Aquatic Ecotoxicity				
	Persistence/Degradability	biodegr	adable. This produc	t is not expected	
			food chains in the en	vironment.	
		Canada			
	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.	
		Me	exico		
	Aquatic Ecotoxicity		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 add	itional 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				
	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 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	March 24, 2014			
	Version	1			
	Changes from Previous Version	N/A			
	Prepared by:	ECL Research and Development Department			

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