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MSDS-E-L260Cp

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date:02/20/2011 03 **CHEMICAL RESPONSE CARD:** 1. PRODUCT IDENTIFICATION 1.1 Product Name: **DeoxIT® GREASE TYPE L260Cp RESPONSE** (Copper Particles) TEAM PPE: 1.2 Chemical Name: See ingredients listed in section 3 1.3 Synonyms: DeoxIT® Grease Type L260Cp, (Part No. L260Cp) WHMIS: 1.4 Trade Names: DeoxIT® Grease Type L260Cp 1.5 Product Use: Lubricant 1 **HEALTH:** 1.6 Manufacturer's Name: CAIG Laboratories, Inc. FLAMMABILITY: 0 1.7 Manufacturer's 0 12200 Thatcher Court, Poway, CA 92064-6876 PHYSICAL HAZARDS: 1.8 Business Phone: +1 (800)-224-4123 PERSONAL PROTECTION: В 1.9 Emergency Phone: CHEMTREC +1 (703) 527-3887/+1 (800) 424-9300 1.10 Other Product Names: Part No. L260-C2C Part No. L260-C1 Part No. L260-C8 Part No. L260-C35 2. HAZARD IDENTIFICATION 2.1 Hazard Identification: This product is classified as a hazardous substance but not as dangerous goods according to the classification criteria of NOHSC and ADG Code (Australia). DeoxIT® Grease Type L260Cp is non-volatile, non-hazardous and non-flammable. Not expected to cause prolonged or significant eye or skin irritation. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek immediate medical attention should an accident of this type occur. Contains petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommend mineral oil mist exposure limit. Heating can generate vapors that may cause respiratory irritation, nausea and headaches, irritating to the upper respiratory tract. Routes of Entry: 2.2 Inhalation: YES Absorption: Ingestion: NO 2.3 Effects of Exposure: Non-irritating when used as directed. Can cause irritation, tearing, and temporary blurred vision. EYES: SKIN: Non-irritating when used as directed. Prolonged or repeated contact may cause temporary contact dermatitis (localized redness or rash). INGESTION: Not probable. Small amounts if swallowed may cause temporary gastrointestinal irritation. INHALATION: Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are temporary irritating to the eyes, nose, throat, and the respiratory tract; may cause temporary headaches and dizziness. Symptoms of Overexposure: Non-irritating when used as directed. Can cause temporary irritation, tearing, and blurred vision. EYES: SKIN: Non-irritating when used as directed. Prolonged or repeated contact may cause temporary contact dermatitis (localized redness or rash). INGESTION: Not probable. Small amounts if swallowed may cause temporary gastrointestinal irritation. INHALATION: Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are temporary irritating to the eyes, nose, throat, and the respiratory tract; may cause headaches and dizziness. 2.5 Acute Health Effects: EYES: None reported when used as directed. Mild to moderate temporary irritation. SKIN: Unlikely when used as directed. Repeated exposure at site of contact may cause temporary contact dermatitis (localized redness or rash). INGESTION: Not probable. Small amount may cause temporary gastrointestinal irritation and central nervous system depression. INHALATION: Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are temporary irritating to the eyes, nose, throat, and the respiratory tract; may cause headaches and dizziness. Chronic Health Effects: 2.6 None reported by the manufacturer. 2.7 Target Organs: Eyes, Skin

NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used. Note: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format



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SKIN

			3. CC	OMPOSITION	ON & INC	REDI	ENT IN	NFOF	RMAI	IION					
							EXPOSURE LIMITS IN AIR (r		? (mg/	m³)					
							ACC	GIH	l	NOHS	2		OSHA		
							pp	m		ppm			ppm		OTHER
			EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH			
	UM GREASE LUBRIC TAINS ONE OR MC	_		:		≤ 99.0	NA	NA	NF	NF	NF	NA	NA	NA	
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC 64742-65-0 SE7500000 265-169-7			NA	5	10	NF	NF	NF	5	10	NA	RESPIRABLI OIL MIST			
	OUAL OILS (PETROL 'ENT-REFINED	UM)	64742-01-4	NA	265-101-6	NA	5-	10	NF	NF	NF	5	10	NA	RESPIRABLE OIL MIST
SOLV	LLATES (PETROLEUM 'ENT-DEWAXED HE AFFINIC		64741-88-4		265-090-8	NA	5	10	NF	NF	NF	5	10		RESPIRABLI OIL MIST
ZINC	ALKYLDITHIOPHO	PHATE	68649-42-3	NA	272-028-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
COP	PER		7440-50-8 TRADE SECRET	GL5325000	231-159-6	≤ 8.4	0.2	NA	NF	NF	NF	0.1 NA	NA NA	100 NA	FUME
Deox	(IT® PROPRIETARY A	ΛIX		UNK	UNK	NA	NF	NF	NF	NF	NF				
				•										•	
				4.	FIRST AID	MEA	SURE	S							
4.1	First Aid: EYES: SKIN:	15 m atter Rem Then	precaution ren ninutes, holding ntion. ove contamina wash the skii	g eyelid(s) op ted clothing. In with soap	oen to ensu Use a waterle and water	e com ess hand If irritati	olete flu cleane on pers	ishing. r, mine sists, se	If irri eral oil,	tation or pe	persis troleur	sts, se n jelly	ek im to rem	media nove th	te medica ne material
contaminated clothing until after it has been p INGESTION: Do not induce vomiting! As a precaution giv immediately.			. ,			of wate	er or n	nil to d	rink a	nd get	medi	al attentior			
	INHALATION: Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot produced immediately remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and se immediate medical attention. If breathing stops, perform artificial respiration.														
4.2	Medical Conditions Aggravated by Exposure:					-			HE	ALTH					1
	None reported b	y the n	nanufacturer.								\ABII	ITY			0
													\ RD\$		0
	PROTECTIVE EQUIPMENT B										ا ۱۱۷ ا د		UIFN	VEINI	D



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5. FIREFIGHTING MEASURES

Flashpoint & Method:

> 244 °C (471 °F) COC (Cleveland Open Cup)

5.2 Autoignition Temperature:

Flammability Limits: 5.3 Lower Explosive Limit (LEL): ND Upper Explosive Limit (UEL): ND

5 4 Fire & Explosion Hazards:

Carbon dioxide, carbon monoxide, hydrocarbons.

5.5 Extinguishing Methods:

CO₂, Alcohol foam, Dry Chemical, Water Fog

5.6 Firefighting Procedures

> Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Use a water spray to cool containers involved in fire. Do not use direct water stream. Container storage areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. Keep containers cool until well after the fire is out to prevent rupture. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway.



6. ACCIDENTAL RELEASE MEASURES

Secure spill area and deny entry to all unprotected individuals. Individuals involved in the cleanup should wear appropriate personal protective equipment. Area may become slippery. Absorb product onto porous material, such as sand, clay, diatomaceous earth or commercial absorbent material. Place into leak-proof, approved containers. If necessary, cover all drains and dike well ahead of the spill to prevent runoff into sewers, drains, and all waterways. Contact appropriate local or provincial authorities for assistance and/or reporting requirements.

7. HANDLING & STORAGE INFORMATION

7.1 Work & Hygiene Practices:

> Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact.

7.2 Storage & Handling:

> Store at temperatures between 59 °F and 95 °F (15 °C and 35 °C) in a dry, well-ventilated location. Keep away from heat, sparks, open flame, and other sources of ignition. Container is not designed to contain pressure. Don not use pressure to empty container or it may rupture with explosive force. Normal shelf-life: 2-3 years.

7.3

Empty containers may contain product residues. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Ventilation & Engineering Controls:

> Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).

8.2 Respiratory Protection:

> None required, when used with adequate ventilation. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits.

8.3

Wear safety glasses with side shields (ANSI Z87) under normal use conditions.

8.4

None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. In such cases, wear rubber or impervious plastic gloves.

8.5

Use as necessary to prevent skin contact.



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		9. PHYSICAL & CHEMICAL PROPERTIES				
.1	Density:	0.72				
2	Boiling Point:	> 240 °C (464 °F)				
.3	Melting Point:	NA				
.4	Evaporation Rate:	NA NA				
.5	Vapor Pressure:	< 0.01 mm Hg @ 20 °C (68 °F)				
.6	Molecular Weight:	NA				
7	Appearance & Color:	Amber				
8	Odor Threshold:	Ethereal/hydrocarbon odor				
9	Solubility:	Not soluble in water				
10	Ph	NA NA				
11	Viscosity:	5.4 – 7.5 cSt @ 104 °F				
12	Other Information:	9.4-7.5 CST @ 104 F				
	Onto information.	INA				
		10. STABILITY & REACTIVITY				
).1	Stability:					
		onditions of use (see section 7).				
0.2	Hazardous Decomposition Pro-					
).3		es exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution				
	Hazardous Polymerization:					
.0						
	Will not occur. Conditions to Avoid:	son flames energy, high heat (>100 °E) or other heat sources, and provimity to incompatible substances and				
0.4	Will not occur. Conditions to Avoid: Use or storage near op heavily trafficked area Incompatible Substances: Strong oxidizers such of	s. as peroxides, nitrates, and chlorates. Copper is explosively incompatible with sodium azide. Copper du				
).4	Will not occur. Conditions to Avoid: Use or storage near op heavily trafficked area Incompatible Substances: Strong oxidizers such of	s. as peroxides, nitrates, and chlorates. Copper is explosively incompatible with sodium azide. Copper duene gas to form copper acetylides which are sensitive to shock.				
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.1 .2 .3 .4	Will not occur. Conditions to Avoid: Use or storage near op heavily trafficked area incompatible Substances: Strong oxidizers such of may react with acetyle. Toxicity Data: This product has not be product, which are fou Acute Toxicity: See section 2.5 Chronic Toxicity: See section 2.6 Suspected Carcinogen: No. This product contain Reproductive Toxicity: This product is not repoon Mutagenicity:	as peroxides, nitrates, and chlorates. Copper is explosively incompatible with sodium azide. Copper duene gas to form copper acetylides which are sensitive to shock. 11. TOXICOLOGICAL INFORMATION The een tested on animals to obtain toxicological data. There are toxicology data for the components of the interval in the scientific literature. These data have not been presented in this document. This produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product contains alked ithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic. This product contains copper an essential element of mammalian metabolism. Copper metal has little or no serious toxicity.				
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	12. ECOLOGICAL INFORMATION						
12.1	Environmental Stability:						
	This product will slowly volatile from soil. Components of this product will slowly decompose into organ	ic compounds.					
12.2	Effects on Plants & Animals:						
	There is no specific data available for this product.						
12.3	Effects on Aquatic Life:						
	This material should be kept out of sewage and drainage systems and all bodies of water. Releases of large volumes of this product are expected to be harmful or fatal to overexposed aquatic life.						
	13. DISPOSAL CONSIDERATIONS						
13.1	Waste Disposal: Dispose of in accordance with federal, state or local regulations. Do not dump into sewers, on the grou	nd or into any body of water.					
13.2	Special Considerations:	, ,					
	NA						
	14. TRANSPORTATION INFORMATION						
	asic description (proper shipping name, hazard class & division, ID Number, packing group) is shown for conal descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	each mode of transportation.					
14.1	49 CFR (GND): NOT REGULATED						
14.2	IATA (AIR):						
	NOT REGULATED						
14.3	IMDG (OCN): NOT REGULATED						
14.4	TDGR (Canadian GND):						
	NOT REGULATED						
14.5	ADR/RID (EU):						
	NOT REGULATED						
14.6	MEXICO (SCT):						
	NOT REGULATED	_					
14.7	ADGR (AUS):						
	NOT REGULATED						
	15. REGULATORY INFORMATION						
15.1	SARA Reporting Requirements:						
	This product contains the following chemicals subject to the reporting requirements of section 313 of Community Right-to-know Act of 1986 and of CFR 372; 68649-42-3 Zinc Alkydithiophosphate	the Emergency Planning and					
15.2	SARA Threshold Planning Quantity:						
	NA						
15.3	TSCA Inventory Status:						
	All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from i	nventory status.					
15.4	CERCLA Reportable Quantity (RQ): This product has no CERCLA Reportable Quantity. However, release into a waterway may require reportable product has no CERCLA Reportable Quantity.	rting to the National Response					
15.5	Center. Copper: (RQ 2270 kgs)						
15.5	Other Federal Requirements: NA	_					
15.6	Other Canadian Regulations						
	This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR. The components of thi product are listed on the DSL/NDSL. None of the components of this product are listed on the Prioritie Substances List.	: (T)					
15.7	State Regulatory Information:						
	Components of this product are <u>not</u> listed on any of the following state criteria lists: California OS Massachusetts Right to Know List; Pennsylvania Hazardous Substances List 34 323 Appendix A; Wiscon NR 605.09; Minnesota Hazardous Substances List, New Jersey Right to Know List; New York Right to Substances List; and Florida Toxic Substances List. Under New Jersy Right to Know Act L1983 this follows: Petroleum Oil (Grease).	sin Hazardous Substances List Know List; Michigan Critical					



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15. REGULATORY INFORMATION- continued

15.8 67/548/EEC (European Union) Requirements:

http://www.shipmate.com/

The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:

Petroleum Distillates: (Xn) Harmful. R: 42/43-48/20 - May cause sensitization by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. S: 2-

contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. S: 2-29-36 - Keep out of the reach of children. Do not empty into drains. Wear suitable protective clothing.



	16. OTHER INFORMATION					
16.1	Other Information:					
	NA					
16.2	Terms & Definitions:					
	See last page of this MSDS.					
16.3	government regulations must be review knowledge, the information contain completeness are not guaranteed as contained herein relates only to the sp	ffered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other ewed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s led herein is reliable and accurate as of this date; however, accuracy, suitability or and no warranties of any type, either expressed or implied, are provided. The information ecific product(s). If this product(s) is combined with other materials, all component properties anged from time to time. Be sure to consult the latest edition.				
16.4	Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax http://www.caig.com/	CAIG LABORATORIES, INC.				
16.5	Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, OR. 97759-0787 +1-310-370-3600 phone +1-310-370-5700 fax	ShipMate* Dangerous Goods Training & Consulting				



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	ACGIH American Conference on Governmental Industrial Hygienists		
TLV	Threshold Limit Value		
OSHA	U.S. Occupational Safety and Health Administration		
PEL	Permissible Exposure Limit		
IDLH	Immediately Dangerous to Life and Health		

FIRST AID MEASURES:

CPR	Cardiop	ulmona	ry resu	uscitation -	method in	which a	person
	whose	heart	has	stopped	receives	manual	chest
	compre	ssions a	nd bre	eathing to	circulate bl	ood and p	rovide
	oxvaen	to the b	odv.				

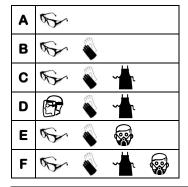
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard		
1	Slight Hazard		
2	Moderate Hazard		
3	Severe Hazard		
4	Extreme Hazard		



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
NF	Not Found
ND Not Determined	
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

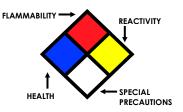
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Minimum temperature required to initiate combution in air with no other source of ignition		
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of	
	an ignition source	
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of	
	by volume, that will explode or ignite in the presence of	
	an ignition source	

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W	Use No Water
ОХ	Oxidizer



TOXICOLOGICAL INFORMATION:

LD 50	Lethal Dose (solids & liquids) which kills 50% of the
	exposed animals s
LC 50	Lethal concentration (gases) which kills 50% of the
	exposed animal
ppm	Concentration expressed in parts of material per
	million parts
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{io} , LD _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or
TC, TCo, LCio, & LCo	toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	Canadian Domestic Substance List				
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				

EC INFORMATION:

		No.	*			X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful