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MSDS-E-L260Gp

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.1 MSDS Revision Date:02/20/2011 03 CHEMICAL RESPONSE CARD: 1. PRODUCT IDENTIFICATION 1.1 Product Name: **DeoxIT® GREASE TYPE L260Gp** RESPONSE (Graphite Particles) **TEAM PPE:** 1.2 Chemical Name: See ingredients listed in section 3 1.3 Synonyms: DeoxIT® Grease Type L260Gp, (Part No. L260Gp) WHMIS: 1.4 Trade Names: DeoxIT® Grease Type L260Gp 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-G2C Part No. L260-G1 Part No. L260-G8 Part No. L260-G35 2. HAZARD IDENTIFICATION Hazard Identification: 2.1 This product is classified as a hazardous substance but not as dangerous goods according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). DeoxIT® Grease Type L260Gp 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. 2.2 Routes of Entry: YES YES Inhalation: Absorption: NO Ingestion: 2.3 Effects of Exposure: EYES: Non-irritating when used as directed. Can cause irritation, tearing, and temporary blurred vision. 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 aastrointestinal 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. 24 Symptoms of Overexposure EYES: Non-irritating when used as directed. Can cause temporary irritation, tearing, and blurred vision. 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. Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are INHALATION: temporary irritating to the eyes, nose, throat, and the respiratory tract; may cause headaches and dizziness. Acute Health Effects: 2.5 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. 2.6 Chronic Health Effects: None reported by the manufacturer. 27 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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				OMPOSITI									₹ (mg/	m3)	
							AC	GIH		NOHS					
							pp			ppm			ppm		OTHER
		(\$)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
	UM GREASE LUBRIC	CATING				≤ 97.5	NA	NA	NF	NF	NF	NA	NA	NA	
CONTAINS ONE OR MORE OF THE FOLLOWING: DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY 64742-65-0 SE7500000 265-16 PARAFFINIC		265-169-7	NA	5	10	NF	NF	NF	5	10	NA	RESPIRABLI OIL MIST			
ESIC	OUAL OILS (PETROL VENT-REFINED	IUM)	64742-01-4	NA	265-101-6	NA	5-	10	NF	NF	NF	5	10	NA	RESPIRABL OIL MIST
OLV	LLATES (PETROLEUM ENT-DEWAXED HE		64741-88-4	PY8040500	265-090-8	NA	5	10	NF	NF	NF	5	10		RESPIRABL OIL MIST
INC	ALKYLDITHIOPHO	SPHATE	68649-42-3	NA	272-028-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
GRA	PHITE, SYNTHETIC		7782-42-5			NA	2	NA	NF	NF	NF	5	NA	NA	RESPIRABL DUST
)eo	(IT® PROPRIETARY /	NIX	TRADE SECRET	UNK	UNK	NA	NA	NA	NF	NF	NF	NA	NA	NA	
				4	FIRST AID) MFA	SURE	S							
4.1	First Aid:							•							
	EYES:		precaution ren ninutes, holding tion.												
	SKIN:	Then	ove contamina wash the skii aminated cloth	n with soap	and water	lf irritatio	on pers	sists, s							
	INGESTION:		ot induce vomi ediately.	ting! As a pr	ecaution giv	e the pe	rson a	glass o	of wate	er or n	nil to d	rink a	nd ge	ł medi	al attentior
	INHALATION:	imme	or inhalation u ediately remove ediate medical	e victim to fre	esh air at ond	e. If br	eathing	is diffi	icult, a	dmini					
4.2				• • • • • • • • • • • • • • • •					ALTH					1	
	None reported by the manufacturer.								ABI	ITY			0		
														;	0
											CTIV		-		-
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Prep	ared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.1 MSDS Revision Date:02/20/2011			
	5. FIREFIGHTING MEASURES			
5.1	Flashpoint & Method: > 244 °C (471 °F) COC (Cleveland Open Cup)			
5.2	Autoignition Temperature:			
5.3	Flammability Limits: Lower Explosive Limit (LEL): ND Upper Explosive Limit (UEL): ND			
5.4	Fire & Explosion Hazards:			
	Carbon dioxide, carbon monoxide, hydrocarbons.			
5.5	Extinguishing Methods: CO ₂ , 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			
6.1				
	Spills: 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	Special Precautions: 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	Eye Protection: Wear safety glasses with side shields (ANSI Z87) under normal use conditions.			
8.4	Hand Protection: 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	Body Protection: Use as necessary to prevent skin contact.			



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.1		9. PHYSICAL & CHEMICAL PROPERTIES	
	Density:		
2	Boiling Point:		
		> 240 °C (464 °F)	
3	Melting Point:	NA	
4	Evaporation Rate:	NA	
5	Vapor Pressure:	< 0.01 mm Hg @ 20 °C (68 °F)	
	Molecular Weight:	NA	
'	Appearance & Color:	Amber/graphite	
}	Odor Threshold:	Ethereal/hydrocarbon odor	
)	Solubility:	Not soluble in water	
0	Ph	ΝΑ	
1	Viscosity:	5.4 – 7.5 cSt @ 104 °F	
2	Other Information:	NA	
		10. STABILITY & REACTIVITY	
1	Charle III a		
1	Stability: Stable under normal co	nditions of use (see section 7).	
.2	Hazardous Decomposition Proc		
~		es exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solutio	
.3	Hazardous Polymerization:		
	Will not occur.		
4	Conditions to Avoid:		
	Use or storage near open flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances and heavily trafficked areas.		
	heavily trafficked areas	5.	
1.5	heavily trafficked areas Incompatible Substances:	5.	
).5	Incompatible Substances:	s. s peroxides, nitrates, and chlorates.	
.5	Incompatible Substances:		
).5	Incompatible Substances:	s peroxides, nitrates, and chlorates.	
.5	Incompatible Substances:		
	Incompatible Substances: Strong oxidizers such as Toxicity Data: This product has not be	s peroxides, nitrates, and chlorates. 11. TOXICOLOGICAL INFORMATION een tested on animals to obtain toxicological data. There are toxicology data for the components of th	
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Prepa	red to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS	Revision: 1.1	MSDS Revision Date:02/20/2011
	12. ECOLOGICAL INFOR	MATION	
12.1	Environmental Stability: This product will slowly volatile from soil. Components of this product will s	lowly decompose in	to organic 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 are expected to be harmful or fatal to overexposed aquatic life.	bodies of water. Rele	eases of large volumes of this product
	13. DISPOSAL CONSIDE	RATIONS	
13.1	Waste Disposal: Dispose of in accordance with federal, state or local regulations.		
13.2	Special Considerations: NA		
	14. TRANSPORTATION INFO	ORMATION	
	asic description (proper shipping name, hazard class & division, ID Number, onal descriptive information may be required by 49 CFR, IATA/ICAO, IMDG c		own for 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 INFOR	MATION	
15.1	SARA Reporting Requirements: This product contains the following chemicals subject to the reporting red Community Right-to-know Act of 1986 and of CFR 372; 68649-42-3 Zinc Alky		n 313 of 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 exemr	at from inventory status.
15.4	CERCLA Reportable Quantity (RQ):		
	This product has no CERCLA Reportable Quantity. However, release into a Center.	waterway may requ	ire reporting to the National Response
15.5	Other Federal Requirements: NA		
15.6	Other Canadian Regulations		
	This product has been classified according to the hazard criteria of the Co (CPR) and the MSDS contains all of the information required by the CI product are listed on the DSL/NDSL. None of the components of this prod Substances List.	PR. The component	s of this (T)
15.7	State Regulatory Information:		
	Components of this product are <u>not</u> listed on any of the following state Massachusetts Right to Know List; Pennsylvania Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List, New Jersey Right to K Substances List; and Florida Toxic Substances List. Under New Jersy Rig follows: Petroleum Oil (Grease).	34 323 Appendix A; (now List; New York	Wisconsin Hazardous Substances List Right to Know List; Michigan Critical



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	15. REC	GULATORY INFORMATION- continued		
15.8	67/548/EEC (European Union) Requirements: 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- 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.			
	government regulations must be review knowledge, the information contained completeness are not guaranteed and contained herein relates only to the spec	ered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other ed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s d herein is reliable and accurate as of this date; however, accuracy, suitability or a no warranties of any type, either expressed or implied, are provided. The information cific product(s). If this product(s) is combined with other materials, all component properties nged 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/	CANGE 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 http://www.shipmate.com/	Europerus Goods Training & Consulting		



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HEALTH

PHYSICAL HAZARDS

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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 Hygienist	
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:

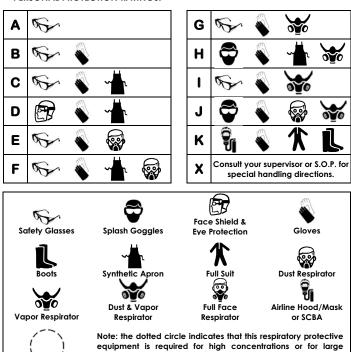
CPR	Cardiopulmonary resuscitation - method in which a person
	whose heart has stopped receives manual chest
	compressions and breathing to circulate blood and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

		NEALIN
0	Minimal Hazard	
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	
3	Severe Hazard	PHYSICAL HAZARD
4	Extreme Hazard	PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:



volume spills or releases of product.

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

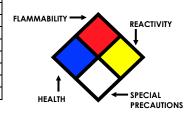
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
•	ő
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
LC 50	
	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, TC _o , LC _{lo} , & LC _o	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:

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С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful