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MSDS-E-L260Ap

MSDS Revision: 1.0 Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision Date: 12/01/2006 03 1. PRODUCT IDENTIFICATION CHEMICAL RESPONSE CARD: Product Name 11 **DeoxIT**[®] GREASE TYPE L260Ap RESPONSE (Aluminum Particles) **TEAM PPE:** 1.2 Chemical Name: See ingredients listed in section 3 1.3 Synonyms: DeoxIT® Grease Type L260Ap, (Part No. L260Ap) WHMIS: 1.4 Trade Names: DeoxIT® Grease Type L260Ap 1.5 Product Use: Lubricant **HEALTH:** 1 1.6 Manufacturer's Name: 0 CAIG Laboratories, Inc. FLAMMABILITY: 1.7 Manufacturer's 0 12200 Thatcher Court, Poway, CA 92064-6876 **REACTIVITY:** 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-A12C Part No. L260-A1 Part No. L260-A8 Part No. L260-A35 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 and ADG Code (Australia). DeoxIT® Grease Type L260Ap 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: Ingestion: NO 23 Effects of Exposure: EYES: Mild to moderate irritation. Not expected to cause prolonged or significant eye irritation. SKIN: Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful the internal organs if absorbed through the skin. INGESTION: Not expected to be harmful if ingested. May cause gastrointestinal irritation & discomfort. Respiratory irritation, nausea and headaches. INHALATION: 2.4 Symptoms of Overexposure EYES: Mild irritation, redness, and watering. SKIN: Contact dermatitis, characterized by localized red or puffy dry skin and itching. INGESTION: Not expected to be harmful if ingested. May cause nausea, vomiting, and diarrhea. INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness. 2.5 Acute Health Effects: EYES: Mild to moderate irritation. SKIN: Repeated exposure at site of contact may cause contact dermatitis (localized redness or rash). Contact with the INGESTION: Not expected to be harmful if ingested. May cause gastrointestinal irritation and central nervous system depression. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Chronic Health Effects: 2.6 None reported by the manufacturer. 2.7 Target Organs: Eyes, Skin



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							EXPOSURE LIMITS IN AIR (mg/m ³)					
							ACGIH	- ppm	0	DSHA - pp	m	OTHER
	CHEMICAL NAM	E(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	PEL	STEL	IDLH	
LITHIUM GREASE LUBRICATING BASE OIL CONTAINS ONE OR MORE OF THE FOLLOWING:						≤ 97.5						
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC		64742-65-0	SE7500000	265-169-7	NA	5	10	5	10	NA	RESPIRABLI OIL MIST	
	oual oils (Petroli 'Ent-refined	IUM)	64742-01-4	NA	265-101-6	NA	5-	10	5	10	NA	RESPIRABLI OIL MIST
SOLV	llates (Petroleun 'Ent-Dewaxed He. Affinic		64741-88-4	PY8040500	265-090-8	NA	5	10	5	10		Respirabli Oil Mist
			68649-42-3	NA	272-028-3	NA	NA	NA	NA	NA	NA	
ZINC	ALKYLDITHIOPHOS											
			1344-28-1	BD1200000	215-691-6	≤ 10.0	(10)	NA	(15)	NA		
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	5. FIREFIGHTING MEASURES				
5.1	Flashpoint & Method:				
	> 244 °C (471 °F) COC (Cleveland Open Cup)				
5.2	Autoignition Temperature: NA				
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 provent runoff into source, drains, and all waterways. Contact appropriate least or provincial authorities for assistance				
	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	Controls: 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					
0.0	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.				



MATERIAL SAFETY DATA SHEET

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		9. PHYSICAL & CHEMICAL PROPERTIES				
1	Density:	0.72				
2 Boiling Point: > 240 °C (464 °F)						
Melting Point: NA						
, 1						
+ 5						
5	Molecular Weight:	NA				
7	Appearance & Color:	Amber/white				
3	Odor Threshold: Ethereal/hydrocarbon odor					
9	Solubility:	Not soluble in water				
10	Ph	NA				
11	Viscosity:	5.4 – 7.5 cSt @ 104 °F				
12	Other Information:	NA				
		10. STABILITY & REACTIVITY				
.1	Stability:					
. 1	,	nditions of use (see section 7)				
.2	Hazardous Decomposition Proc	nditions of use (see section 7).				
		es exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution				
0.3	Hazardous Polymerization:					
	Will not occur.					
.4	Conditions to Avoid:					
	use of storage field op	en liames, sparks, nigh neat (>100°F) or other neat sources, and proximity to incompatible substances an				
	heavily trafficked areas	en flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances an				
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Prepa	red to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.0	MSDS R	evision Date: 12/01/2006
	12. ECOLOGICAL INFORMATION		
12.1	Environmental Stability:		
10.0	This product will slowly volatile from soil. Components of this product will slowly decon Effects on Plants & Animals:	npose into organi	c compounds.
12.2	There is no specific data available for this product.		
12.3	Effects on Aquatic Life:		
12.5	This material should be kept out of sewage and drainage systems and all bodies of w	ater Releases of	large volumes of this product
	are expected to be harmful or fatal to overexposed aquatic life.		large volumes of this product
	· · ·		
	13. DISPOSAL CONSIDERATIONS		
13.1	Waste Disposal: Dispose of in accordance with federal, state or local regulations.		
13.2	Special Considerations:		
	NA		
	14. TRANSPORTATION INFORMATIC	DN	
	asic description (proper shipping name, hazard class & division, ID Number, packing gro onal descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTD(each mode of transportation.
14.1	49 CFR (GND):		
	NOT REGULATED		_
14.2	IATA (AIR):		
44.0	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		
	15. REGULATORY INFORMATION		
15.1	SARA Reporting Requirements:		
	This product contains the following chemicals subject to the reporting requirements of Community Right-to-know Act of 1986 and of CFR 372; 68649-42-3 Zinc Alkydithiophosp		he 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	e exempt from in	ventory status.
15.4	CERCLA Reportable Quantity (RQ):		
	This product has no CERCLA Reportable Quantity. However, release into a waterway m Center.	nay require repor	ing to the National Response
15.5	Other Federal Requirements:		
	NA		1
15.6	Other Canadian Regulations		
	This product has been classified according to the hazard criteria of the Controlled Prod (CPR) and the MSDS contains all of the information required by the CPR. The cor product are listed on the DSL/NDSL. None of the components of this product are listed Substances List.	mponents of this	(Ţ)
15.7	State Regulatory Information:		
	Components of this product are <u>not</u> listed on any of the following state criteria list Massachusetts Right to Know List; Pennsylvania Hazardous Substances List 34 323 Appe NR 605.09; Minnesota Hazardous Substances List, New Jersey Right to Know List; Ne Substances List; and Florida Toxic Substances List. Under New Jersy Right to Know follows: Petroleum Oil (Grease).	endix A; Wiscon: ew York Right to	sin Hazardous Substances List Know List; Michigan Critical



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MSDS Revision: 1.0 MSDS Revision Date: 12/01/2006 Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards 15. REGULATORY 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** Other Information: 16.1 NΑ Terms & Definitions 16.2 See last page of this MSDS. 16.3 Disclaimer: This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. Prepared for: 164 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/ Prepared by: 16.5 ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 ShipMate Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax http://www.shipmate.com/



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Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.0

HEALTH

FLAMMABILITY

PERSONAL PROTECTION

MSDS Revision Date: 12/01/2006

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	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:

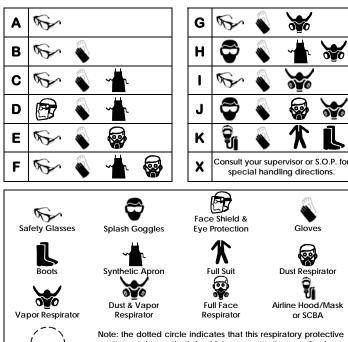
CPR	Cardiopulmonary resuscitation - method in which a person
	whose heart has stopped receives manual chest
	compressions and breathing to circulate blood and provide
	oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



equipment is required for high concentrations or for large volume spills or releases of product.

OTHER STANDARD ABBREVIATIONS:

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

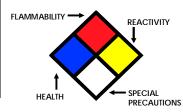
NATIONAL FIRE	PROTECTION	ASSOCIATION: NFPA
	I KOILONON	

FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
Temperature	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,
	Upper Explosive Limit - highest percent of vapor in air, 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
_₩-	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 _{lo}	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:

		A.	*	8	X	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful