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MSDS-E-L260Ap

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 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 1 **HEALTH:** 1.6 Manufacturer's Name: 0 CAIG Laboratories, Inc. FLAMMABILITY: 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-A2C Part No. L260-A1 Part No. 1260-A8 Part No. L260-A35 2. HAZARD IDENTIFICATION 21 Hazard Identification: This product is classified as a hazardous substance but not as dangerous goods according to the classification criteria of NOHSC: 1008(2004) 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: Inhalation: YES Absorption: Ingestion: NO 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 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: 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. 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: None reported when used as directed. Mild to moderate temporary irritation. EYES: 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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Prepared to OSHA, ACC, ANSI, WHMIS. NOHSC & 2001/58 EC Standards MSDS Revision: 1.1

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PROTECTIVE EQUIPMENT

SKIN

EYES

Prep	pared to OSHA, A	CC, AN	SI, WHMIS, NOH	SC & 2001/58	EC Standard	s MS	OS Revis	ion: I.		M	SDS Re	evision	Date:	02/20/	2011
			3. CC	MPOSITION	ON & INC	REDI	ENT IN	NFOF	RMA1	ION					
											LIMITS	IN All			
							ACC		ا	NOHSO	<u> </u>		OSHA		
							pp	m	FC	ppm	FC		ppm		OTHER
	CHEMICAL NAME	(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
LITHIU	JM GREASE LUBRIC	CATING	BASE OIL	•		≤ 97.5	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
RESIDUAL OILS (PETROLIUM) SOLVENT-REFINED		.IUM)	64742-01-4	NA	265-101-6	NA	5	10	NF	NF	NF	5	10	NA	RESPIRABLE
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC			64741-88-4	PY8040500	265-090-8	NA	5	10	NF	NF	NF	5	10		RESPIRABLE OIL MIST
ZINC	ALKYLDITHIOPHO	SPHATE	68649-42-3	NA	272-028-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ALUN	NINUM OXIDE		1344-28-1	BD1200000	215-691-6	≤ 10.0	(10)	NA	NF	NF	NF	(15)	NA	NA	
Deox	IT® PROPRIETARY	MIX	TRADE SECRET	UNK	UNK	NA	NA	NA	NF	NF	NF	NA	NA	NA	
			•	•	•	•	•		•						•
				4.	FIRST AID	MEA	SURE	S							
4.1	First Aid:							<u> </u>							
	EYES:	As a precaution remove contact lenses if worn and flush eyes thoroughly with copious amounts of water for at leas 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medica attention.													
	SKIN: Remove contaminated clothing. Use a waterless ha Then wash the skin with soap and water If irrit contaminated clothing until after it has been proper			lf irritati	on pers	ists, s									
INGESTION: Do not induce vomiting! As a precaution give the person a glass of water or mile immediately.			or mil to drink and get medial attention												
	INHALATION:	•													
4.2	Medical Conditions Aggravated by Exposure:							HE	ALTH					1	
	None reported	by the n	nanufacturer.					FLAMMABILI			ITV			0	
											AL F		RDS		0



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Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards | MSDS Revision: 1.1 MSDS Revision Date:02/20/2011 5. FIREFIGHTING MEASURES Flashpoint & Method: > 244 °C (471 °F) COC (Cleveland Open Cup) 5.2 Autoignition Temperature: NA 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 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 NA			
4	Evaporation Rate: NA				
5	Vapor Pressure: < 0.01 mm Hg @ 20 °C (68 °F)				
6	Molecular Weight:	NA			
7	Appearance & Color:	Amber/white			
8	Odor Threshold:	Ethereal/hydrocarbon odor			
9	Solubility:	Not soluble in water			
10	Ph				
11	Viscosity:	NA 7.5 ask@ 104 as			
12	Other Information:	5.4 – 7.5 cSt @ 104 °F			
12	Office information.	NA NA			
		4A ATABULTU A BTAATIVITU			
		10. STABILITY & REACTIVITY			
).1	Stability:				
		onditions of use (see section 7).			
).2	Hazardous Decomposition Proc				
.3	Hazardous Polymerization:	es exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solutio			
.ن	Will not occur.				
.4	Conditions to Avoid:				
		en flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances an			
	heavily trafficked areas				
	neavily ildilicked dieds	s.			
).5	Incompatible Substances:	S.			
).5	Incompatible Substances:	s. s peroxides, nitrates, and chlorates.			
).5	Incompatible Substances:				
).5	Incompatible Substances:				
).5	Incompatible Substances:	s peroxides, nitrates, and chlorates.			
	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 the			
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3 4 5 6	Incompatible Substances: Strong oxidizers such as Toxicity Data: This product has not be product, which are four Acute Toxicity: See section 2.5 Chronic Toxicity: See section 2.6 Suspected Carcinogen: No. This product contain Reproductive Toxicity: This product is not report Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: See Section 2.3	as peroxides, nitrates, and chlorates. 11. TOXICOLOGICAL INFORMATION een tested on animals to obtain toxicological data. There are toxicology data for the components of the find in the scientific literature. These data have not been presented in this document. ins less than 3% Dimethyl Sulfoxide (DMSO). red to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product contains alk dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity cultured mammalian cells but only at concentrations that were toxic. Aluminum oxide has little or a serious toxicity. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans.			
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Prepa	red to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS I	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 sl	lowly decompose into	o 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 l	hadias of water Pole	acce of large volumes of this product
	are expected to be harmful or fatal to overexposed aquatic life.	bodies of water, kele	eases of large volumes of mis product
	13. DISPOSAL CONSIDER	RATIONS	
13.1	Waste Disposal: Dispose of in accordance with federal, state or local regulations.		
13.2	Special Considerations: NA		
	14. TRANSPORTATION INFO	DRMATION	
	asic description (ID Number , proper shipping name, hazard class & division, onal descriptive information may be required by 49 CFR, IATA/ICAO, IMDG at	,	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):		
147	NOT REGULATED		
14.7	ADGR (AUS): NOT REGULATED		
	15. REGULATORY INFOR/	MATION	
15.1	SARA Reporting Requirements:		212 of the Freezeway Newstreet and
	This product contains the following chemicals subject to the reporting req Community Right-to-know Act of 1986 and of CFR 372; 68649-42-3 Zinc Alky	urements of section	313 of the Emergency Planning and
15.2	SARA Threshold Planning Quantity:	dimophosphare	
	NA		
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or o	are otherwise evemo	t from inventory status
15.4	CERCLA Reportable Quantity (RQ):	are officiwise exemp	i nom inventory statos.
	This product has no CERCLA Reportable Quantity. However, release into a vicenter.	waterway may requir	re 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 Cor		
	(CPR) and the MSDS contains all of the information required by the CP product are listed on the DSL/NDSL. None of the components of this produ	-	
	Substances List.		
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 Ki Substances List; and Florida Toxic Substances List. Under New Jersy Right follows: Petroleum Oil (Grease).	34 323 Appendix A; now List; New York I	Wisconsin Hazardous Substances List Right to 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: 2-29-36 - 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	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.						
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	American Conference on Governmental Industrial Hygienists		
TLV	TLV Threshold Limit Value		
OSHA	OSHA U.S. Occupational Safety and Health Administration		
PEL	Permissible Exposure Limit		
IDLH	Immediately Dangerous to Life and Health		

FIRST AID MEASURES:

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.

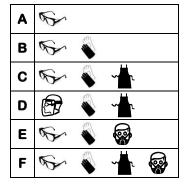
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

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

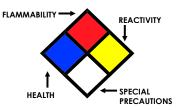
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion 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		
OX	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, 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:

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