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MSDS-E-L260Qp

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 12/01/2006 03 1. PRODUCT IDENTIFICATION CHEMICAL RESPONSE CARD: 11 Product Name: **DeoxIT**<sup>®</sup> GREASE TYPE L260Qp RESPONSE (Quartz Particles) **TEAM PPE:** 1.2 Chemical Name: See ingredients listed in section 3 1.3 Synonyms: DeoxIT® Grease Type L260Qp, (Part No. L260Qp) WHMIS: 1.4 Trade Names: DeoxIT® Grease Type L260Qp 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-Q12C Part No. L260-Q1 Part No. L260-O8 Part No. L260-Q35 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 L260Qp 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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								FXD	RMATION EXPOSURE LIMITS IN AIR (mg/m³)			)
								I - ppm		DSHA - pp	•••	OTHER
	CHEMICAL NAM	IF(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	PEL	STEL	IDLH	UTHER
	M GREASE LUBRIC	CATING B	ASE OIL	KILOO NO.		≤ 97.5		JILL		JILL		
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC		64742-65-0	SE7500000	265-169-7	NA	5	10	5	10	NA	RESPIRABL OIL MIST	
RESIDUAL OILS (PETROLIUM) SOLVENT-REFINED		.IUM)	64742-01-4	NA	265-101-6	NA	5-	10	5	10	NA	RESPIRABLI OIL MIST
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC			64741-88-4	PY8040500	265-090-8	NA	5	10	5	10		RESPIRABL OIL MIST
ZINC	ALKYLDITHIOPHO	SPHATE	68649-42-3	NA	272-028-3	NA	NA	NA	NA	NA	NA	
SILIC	A, FUSED		7631-86-9			≤1.2	1	NA	1	NA	NA	RESPIRABL DUST
Deox	IT® PROPRIETARY N	МІХ	TRADE SECRET	UNK	UNK	NA	NE	NE	NE	NE	NE	
4.1	First Aid: EYES:		ecaution remov	ve contact le		and flush	eyes tho					
4.1		15 min attentic Remove	utes, holding e on. e contaminated	ve contact le yelid(s) ope clothing. Us	enses if worn a en to ensure se a waterless	and flush complete hand cle	eyes tho e flushing aner, mir	g. If irrita	ation per or petrole	sists, seel um jelly to	c immed	iate medic
4.1	EYES:	15 min attentic Remove Then w contam	utes, holding e nn. e contaminated vash the skin v ninated clothing induce vomiting	ve contact le yelid(s) ope clothing. Us vith soap a until after it	enses if worn a en to ensure e a waterless nd water If has been pro	and flush complete hand cle irritation perly clea	eyes thoi e flushing aner, mir persists, aned.	g. If irrita neral oil, c seek pro	ation per or petrole mpt mee	sists, seel um jelly to dical atte	c immed o remove ention.	iate medic the materi Do not we
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	EYES: SKIN: INGESTION: INHALATION: Medical Conditions	15 min attentic Remove Then w contar Do not immedi Vapor immedi Aggravated b	utes, holding e on. e contaminated vash the skin v ninated clothing induce vomiting iately. inhalation unde iately remove v iate medical att by Exposure:	ve contact le yelid(s) ope clothing. Us with soap a until after it g! As a pree er ambient rictim to fres	enses if worn a en to ensure nd waterless nd water If has been pro caution give t conditions is h air at once.	and flush complete hand cle irritation perly clea the perso normally . If breatl	eyes thoi e flushing aner, mir persists, aned. n a glass not a p hing is di	<ol> <li>If irritaneral oil, c seek pro of water roblem. fficult, ad</li> </ol>	ation per or petrole mpt med or mil to If overc minister s	sists, seel um jelly to dical atte drink and ome by	immed o remove ntion. I get me vapor of	iate medic the materia Do not we dial attentio hot produ
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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 <sub>2</sub> , 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, spark open flame, and other sources of ignition. Container is not designed to contain pressure. Don not use pressure to empty container of 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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		9. PHYSICAL & CHEMICAL PROPERTIES
1	Density:	
2	Boiling Point:	0.72
	-	> 240 °C (464 °F)
3	Melting Point:	NA
	Evaporation Rate:	NA
5	Vapor Pressure:	< 0.01 mm Hg @ 20 °C (68 °F)
)	Molecular Weight:	NA
	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:	
		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:	
	heavily trafficked areas	en flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances as 5.
0.5	Incompatible Substances:	
	Strong oxidizers such as	s peroxides, nitrates, and chlorates.
	· · · · · · · · · · · · · · · · · · ·	11. TOXICOLOGICAL INFORMATION
1.1	Toxicity Data:	
1.1	Toxicity Data: This product has not b	een tested on animals to obtain toxicological data. There are toxicology data for the components of the
	Toxicity Data: This product has not b product, which are four	
	Toxicity Data: This product has not b product, which are four Acute Toxicity:	een tested on animals to obtain toxicological data. There are toxicology data for the components of t
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.2 .3 .4 .5	Toxicity Data: This product has not b product, which are four Acute Toxicity: See section 2.5 Chronic Toxicity: See section 2.6 Suspected Carcinogen: No. This product conta Reproductive Toxicity: This product is not repo Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: See Section 2.3	een tested on animals to obtain toxicological data. There are toxicology data for the components of the in the scientific literature. These data have not been presented in this document.



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	12. ECOLOGICAL INFORMATION	
12.1	Environmental Stability:	
10.0	This product will slowly volatile from soil. Components of this product will slowly decompose into o	rganic compounds.
12.2	Effects on Plants & Animals:	
10.0	There is no specific data available for this product.	
12.3	Effects on Aquatic Life:	on of lorge velumes of this product
	This material should be kept out of sewage and drainage systems and all bodies of water. Release are expected to be harmful or fatal to overexposed aquatic life.	es of large volumes of this product
	13. DISPOSAL CONSIDERATIONS	
13.1	Waste Disposal:	
13.2	Dispose of in accordance with federal, state or local regulations. Special Considerations:	
13.2	NA	
	14. TRANSPORTATION INFORMATION	
	asic description (proper shipping name, hazard class & division, ID Number, packing group) is showr onal descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	n 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):	
1 4.4	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 section 31	3 of the Emergency Planning and
	Community Right-to-know Act of 1986 and of CFR 372; 68649-42-3 Zinc Alkydithiophosphate	
15.2	SARA Threshold Planning Quantity:	
15.0	NA TCCA Investory Status	
15.3	TSCA Inventory Status:	m inventory status
15.4	All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt fro CERCLA Reportable Quantity (RQ):	om inveniory status.
15.4	This product has no CERCLA Reportable Quantity. However, release into a waterway may require r	concrting to the National Pospense
	Center.	eporting 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 Controlled Products Regula	tions
	(CPR) and the MSDS contains all of the information required by the CPR. The components of	
	product are listed on the DSL/NDSL. None of the components of this product are listed on the Prio	orities 💛
15.7	Substances List.	
15.7	State Regulatory Information:	
	Components of this product are <u>not</u> listed on any of the following state criteria lists: California Massachusetts Right to Know List; Pennsylvania Hazardous Substances List 34 323 Appendix A; Wit	
	NR 605.09; Minnesota Hazardous Substances List, New Jersey Right to Know List; New York Rig	
	Substances List; and Florida Toxic Substances List. Under New Jersy Right to Know Act L-1983	
	follows: Petroleum Oil (Grease).	



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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:

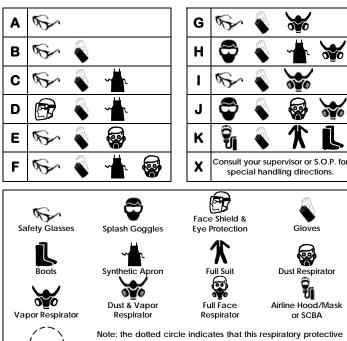
CPR	Cardiopulmonary resuscitation - method in which a person				
	whose heart has stopped receives manual chest				
	compressions and breathing to circulate blood and provide				
	oxygen to the body.				

## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	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

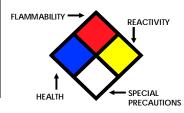
### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

### 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 <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>lo</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or
TC, TC <sub>o</sub> , LC <sub>lo</sub> , & LC <sub>o</sub>	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	<b>X</b>	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful