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MSDS-E-M260Cp

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 12/01/2006

•	PRODUCT IDEN	ITIFICATION			CHEMICA	RESPO	ONSE (CARD:	03
1	Product Name:	DeoxIT® GREASE TYPE M260 (Copper Particles)	0Ср		RESPONSE	8	ring)		
2	Chemical Name:	See ingredients listed in section 3			TEAM PPE:		•		
3	Synonyms:	DeoxIT® Grease Type M260Cp, (Part No	o. M260C)			(
ļ	Trade Names:	DeoxIT® Grease Type M260Cp	,		WHMIS:	(!)			
	Product Use:	Lubricant			HEALTH:				1
)	Manufacturer's Name:	CAIG Laboratories, Inc.			FLAMMABII	ITV·			0
	Manufacturer's	12200 Thatcher Court, Poway, CA 9206	4-6876		REACTIVITY				0
3	Address: Business Phone:	+1 (800)-224-4123			PERSONAL		TION:		В
)	Emergency Phone:	CHEMTREC +1 (703) 527-3	207/_1	(800) 424		ROILO	11011.		10
		Part No. M260-C1 Part No. M260-C8 Part No. M260-C35							
		2. HAZARD	IDENTIFIC	CATION					
	prolonged or signifi of materials of this Contains petroleum inhalation of oil mis	lia). DeoxIT® Grease Type M260Cp is no cant eye or skin irritation. High-Pressure type may result in serious injury. Seelt-based mineral oil. May cause respirate tat airborne levels above the recommen	on-volatile, r Equipment k immediat ory irritation nd mineral c	Information: A te medical at n or other pulr oil mist exposu	s and non-flam Accidental high tention should nonary effects ire limit. Heatin	-velocity an accic following	injection lent of prolong	n under this typo ged or r	the slee occ epeate
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	prolonged or signification of materials of this Contains petroleum inhalation of oil mis cause respiratory in Routes of Entry: Effects of Exposure: EYES: M. SKIN: P. M. SKIN: M.	cant eye or skin irritation. High-Pressure type may result in serious injury. Seel a-based mineral oil. May cause respirate at airborne levels above the recommentation, nausea and headaches, irritating Inhalation: Mild to moderate irritation. Not expected trolonged or repeated contact may cause to expected to cause prolonged or significant through the skin. Not expected. Mespiratory irritation, nausea and headacters.	on-volatile, recommended in the secondary in the secondar	non-hazardou Information: As medical at a or other pulroil mist exposuer respiratory to Absorption: Absorption: relonged or signification. Not a pastrointestinal puffy dry skin ausea, vomiting a significant of the signifi	s and non-flam Accidental high tention should monary effects ire limit. Heatin ract. YES gnificant eye irri calized redness expected to b irritation & disc and itching. ng, and diarrhe	I-velocity an accid following g can ge Inges tation. or rash). e harmfu	injection injection injection:	on under this type ged or re vapors t	the sie occepeating with a time. NO
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			3. COM	<u>/IPOSITIO</u>	N & INGR	REDIEN	T INFO	RMATI	ON			
								EXPO	SURE LIN	IITS IN A	IR (mg/m³)	
						0.4	ACGIH	l - ppm	(OSHA - p	pm	OTHER
	CHEMICAL NAM	E(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	PEL	STEL	IDLH	
	UBRICATING BASE OIL CONTAINS ONE OR MORE OF THE FOLLOWING:					≤ 99.0						
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC		64742-65-0	SE7500000	265-169-7	NA	5	10	5	10	NA	RESPIRABLE OIL MIST	
RESIDUAL OILS (PETROLIUM) SOLVENT-REFINED		64742-01-4	NA	265-101-6	NA	5-	10	5	10	NA	RESPIRABLE OIL MIST	
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC		64741-88-4		265-090-8	NA	5	10	5	10		RESPIRABLE OIL MIST	
COP	PER		7440-50-8	GL5325000	231-159-6	≤ 8.4	0.2	NA	0.1	NA	100	FUME
ZINC	ALKYLDITHIOPHO:	SPHATE	68649-42-3	NA	272-028-3	NA	NA	NA	NA	NA	NA	
Deox	IT® PROPRIETARY I	ΛΙΧ	TRADE SECRET	UNK	UNK	NA	NE	NE	NE	NE	NE	
												•
				4. F	IRST AID I	MEASL	JRES					
4.1	First Aid:											
	EYES:		recaution remov nutes, holding e on.									
	SKIN: Remove contaminated clothing. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material Then wash the skin with soap and water If irritation persists, seek prompt medical attention. Do not weat contaminated clothing until after it has been properly cleaned.											
	INGESTION: Do not induce vomiting! As a precaution give the person a glass of water or mil to drink and get medial attention immediately.				dial attention							
	INHALATION:	immed	inhalation unde liately remove v liate medical att	victim to frest	h air at once.	If breat	hing is di	fficult, ad	minister s			
4.2	Medical Conditions A	00	•					HEA	LTH			1
	None reported I	by the ma	nufacturer.						MMAB	RILITY		0
									CTIVIT			0
											UIPMEN	
								EYES	SKI			
—	1								Jiki			1

NA = Not Available; ND = Not Determined; NE = Not Established; 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 Z400.1-2004 format.



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Upper Explosive Limit (UEL)

5. FIREFIGHTING MEASURES

5.1 Flashpoint & Method:

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

5.2 Autoignition Temperature:

Flammability Limits:

NA

5.3

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.

Lower Explosive Limit (LEL):



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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		9. PHYSICAL & CHEMICAL PROPERTIES
1	Density:	0.72
2	Boiling Point:	> 240 °C (464 °F)
}	Melting Point:	NA
	Evaporation Rate:	NA NA
	Vapor Pressure:	< 0.01 mm Hg @ 20 °C (68 °F)
	Molecular Weight:	NA
	Appearance & Color:	Amber
	Odor Threshold:	
	Solubility:	Ethereal/hydrocarbon odor
)	Ph	Not soluble in water
1	Viscosity:	NA
2	Other Information:	5.4 - 7.5 cSt @ 104 °F
	Other information.	NA NA
		10. STABILITY & REACTIVITY
1	Stability:	
		nditions of use (see section 7).
2	Hazardous Decomposition Prod	
_		es exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution
3	Hazardous Polymerization:	
4	Will not occur. Conditions to Avoid:	
4		on flames, snarks, high heat (> 100 °E) or other heat sources, and provimity to incompatible substances of
	heavily trafficked areas	en flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances at
5	Incompatible Substances:	•
		is peroxides, nitrates, and chlorates. Copper is explosively incompatible with sodium azide. Copper dune gas to form copper acetylides which are sensitive to shock.
		11. TOXICOLOGICAL INFORMATION
.1	Toxicity Data:	11. TOXICOLOGICAL INFORMATION
	This product has not be product, which are four	
	This product has not be product, which are four Acute Toxicity:	een tested on animals to obtain toxicological data. There are toxicology data for the components of the
2	This product has not be product, which are four Acute Toxicity: See section 2.5	een tested on animals to obtain toxicological data. There are toxicology data for the components of the
2	This product has not be product, which are four Acute Toxicity: See section 2.5 Chronic Toxicity:	een tested on animals to obtain toxicological data. There are toxicology data for the components of the
2	This product has not be product, which are four Acute Toxicity: See section 2.5 Chronic Toxicity: See section 2.6	een tested on animals to obtain toxicological data. There are toxicology data for the components of the
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3	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	een tested on animals to obtain toxicological data. There are toxicology data for the components of the din the scientific literature. These data have not been presented in this document. Ins less than 3% Dimethyl Sulfoxide (DMSO). Instead to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product contains all dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity cultured mammalian cells but only at concentrations that were toxic. This product contains copp
3	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:	een tested on animals to obtain toxicological data. There are toxicology data for the components of the din the scientific literature. These data have not been presented in this document. Ins less than 3% Dimethyl Sulfoxide (DMSO). Instead to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product contains all dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity cultured mammalian cells but only at concentrations that were toxic. This product contains copp an essential element of mammalian metabolism. Copper metal has little or no serious toxicity.
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2 3 4 5 6	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	een tested on animals to obtain toxicological data. There are toxicology data for the components of the din the scientific literature. These data have not been presented in this document. Ins less than 3% Dimethyl Sulfoxide (DMSO). Instead to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product contains all dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity cultured mammalian cells but only at concentrations that were toxic. This product contains coppan essential element of mammalian metabolism. Copper metal has little or no 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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	12. ECOLOGICAL I	NFORMATION	
12.1	Environmental Stability:		
12.1	This product will slowly volatile from soil. Components of this product	uct will slowly decompose int	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 are expected to be harmful or fatal to overexposed aquatic life.	and all bodies of water. Rele	eases of large volumes of this product
	are expected to be number of ratal to overexposed aquatic life.		
	13. DISPOSAL CON	ISIDERATIONS	
13.1	Waste Disposal:		
13.2	Dispose of in accordance with federal, state or local regulations. Dispose of in accordance with federal, state or local regulations.	o not dump into sewers, on ti	ne ground or into any body of water.
	NA		
	44 TRANSPORTATION		
	14. TRANSPORTATION	N INFORMATION	
	isic description (proper shipping name, hazard class & division, ID N		own for each mode of transportation.
14.1	onal descriptive information may be required by 49 CFR, IATA/ICAO, 49 CFR (GND):	, IIVIDG ANG THE CIDGK.	
14.1	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		
	15. REGULATORY I	NFORMATION	
15.1	SARA Reporting Requirements:		
	This product contains the following chemicals subject to the repo Community Right-to-Know Act of 1986 and of CFR 372; 68649-42-3		313 of the Emergency Planning and
15.2	SARA Threshold Planning Quantity:	zine / incyditiiophosphate	
	NA		
15.3	TSCA Inventory Status:		
	All chemical substances of this product are listed on the TSCA inventor	ntory or are otherwise exemp	t from inventory status.
15.4	CERCLA Reportable Quantity (RQ):		-
	This product has no CERCLA Reportable Quantity. However, release Center. Copper: (RQ 2270 kgs)	se into a waterway may requi	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 o (CPR) and the MSDS contains all of the information required by product are listed on the DSL/NDSL. None of the components of the Substances List.	the CPR. The components	s of this ()
15.7	State Regulatory Information:		
	Components of this product are <u>not</u> listed on any of the follow Massachusetts Right to Know List; Pennsylvania Hazardous Substar NR 605.09; Minnesota Hazardous Substances List, New Jersey Ri Substances List; and Florida Toxic Substances List. Under New J follows: Petroleum Oil (Grease).	nces List 34 323 Appendix A; ght to Know List; New York	Wisconsin Hazardous Substances List Right to Know List; Michigan Critical



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MSDS Revision Date: 12/01/2006

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:	
	government regulations must be reviewed knowledge, the information contained completeness are not guaranteed and contained herein relates only to the speci	red 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 herein is reliable and accurate as of this date; however, accuracy, suitability or no warranties of any type, either expressed or implied, are provided. The information ific product(s). If this product(s) is combined with other materials, all component properties ged 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. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax	ShipMate* Dangerous Goods Training & Consulting



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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		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	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 blo	ood and p	rovide
	OVVGOD:	to the h	odv	_			

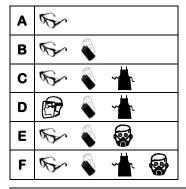
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

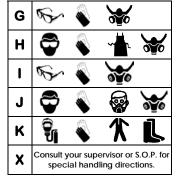
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

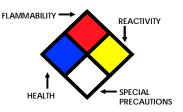
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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,
	by volume, that will explode or ignite in the presence of
	an ignition source

HAZARD RATINGS:

Minimal Hazard
Slight Hazard
Moderate Hazard
Severe Hazard
Extreme Hazard
Acidic
Alkaline
Corrosive
Use No Water
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	NTP National Toxicology Program				
RTECS	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:

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