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MSDS-E-DFG213

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 01/06/2011

١.	PRODUCT IDE	NTIFICATION			CHEMICAL	. ILSI OIV.	SE C	ARD:	03
.1	Product Name:	DeoxIT _® FaderGrease DF	G-213		RESPONSE 🗪 🕮				
.2	Chemical Name:	See ingredients listed in section 3			TEAM PPE:				
.3	Synonyms:	DeoxIT® FaderGrease Type 213							
.4	Trade Names:	DeoxIT® FaderGrease DFG-213			WHMIS: (Ţ)				
.5	Product Use:	Lubricant for conductive plastics			HEALTH:				0
.6	Manufacturer's Name:	CAIG Laboratories, Inc.			FLAMMABILITY:		1		
7	Manufacturer's	12200 Thatcher Court, Poway, CA 9	2064-6876		PHYSICAL H				0
.8	Address: Business Phone:	+1 (800) 224-4123	2001 0070		PERSONAL I		JNI.		В
.9	Emergency Phone:	CHEMTREC +1 (703) 527	7-3887 / -	+1 (800) 42		NO 120 110			
.10	Other Product Names:	DeoxIT® FaderGrease, DFG-213, 28 DeoxIT® FaderGrease, DFG-213, 226	grams (Part N	No. DFG-213-1)					
		2 1147	ARD IDENTI	ICIC ATION					
	injection under the			High-Pressure E					
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NA = Not Available; ND = Not Determined; NE = Not Established; NE = 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 Z400.1-2004 format.



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'n			3. 001	VII 031110			1141	OINIV			IMITS IN	N AIR (ma/m	3)	
i							AC	GIH		NOHSO			OSHA		
i							pp	m		ppm			ppm		OTHER
CUENTIC AL NIANTE (C)		IE/S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	TLV	STEL	IDLH	
			JT64845000	NA	> 60.0	NA	NA	NF	NF	NF	NA	NA	NA		
		NC .			1						1			+	DUCT
	A, AMORPHOUS		7631-86-9	EU8655000	231-545-4	7-13	NA	NA	NF	NF	NF	NA	NA	3000	DUST
	THYL SILOXANE, H IINATED	YDROXYL-	70131-67-8	VV3100000	NA	5-10	NA	NA	NF	NF	NF	NA	NA	NA	
Deo	kIT® \$100L (no dye))	Trade Secret	NA	NA	>1.0	NE	NE	NE	NE	NE	NE	NE	NE	
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				4. F	IRST AID M	1EASU	RES								
4.1	First Aid:														
ı,	EYES:	As a pre	ecaution remo	ove contact le	enses if worn ar	As a precaution remove contact lenses if worn and flush eyes thoroughly with copious amounts of water for at I								at least	
i															
ļi		15 minu attentio		eyelid(s) ope	en to ensure o										
	SKIN:	attentio Remove materia	n. e contaminat I. Then wash	ed clothing. the skin with	Use a waterle soap and wate	complete ss hand er If irritat	flushi clean ion pe	ng. If er, mi	irritati neral	on pe	rsists, s	seek i eum j	mmed elly to	iate m	edical
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		attentio Remove materia contam Do not i immedi Vapor i immedi	n. c contaminat l. Then wash iinated clothir induce vomiti ately. inhalation un ately remove	ed clothing. the skin with s ng until after it ng! As a prec der ambient victim to fres	Use a waterle soap and wate has been prop	ss hand fr if irritat perly clea e persor normally if breath	clean ion pe aned. I a gla I not a ing is o	er, mi rsists, s ss of w proble difficul	irritati neral o seek p vater o em. li t, adm	on pe oil, or rompt r mil to f overe inister	petrolomedic medic drink	seek i eum j al atte and g by va	mmed elly to ention. get me	remo Do no dial at	edical ve the t wear tention
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Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 01/06/2011 5. FIREFIGHTING MEASURES Flashpoint & Method > 101.1 °C (214 °F) CC (Closed Cup) 5.2 Autoignition Temperature: NΑ 5.3 Flammability Limits: Lower Explosive Limit (LEL): ND Upper Explosive Limit (UEL) ND Fire & Explosion Hazards: 5.4 Carbon dioxide, carbon monoxide, hydrocarbons 5.5 Extinguishing Methods CO2, Alcohol foam, Dry Chemical, Water Fog Firefiahtina Procedures: 5.6 Need symbol 0-1-0 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. Storage & Handling: 7 2 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 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. Wear safety glasses with side shields (ANSI Z87) under normal use conditions. Hand Protection 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 Body Protection: Use as necessary to prevent skin contact.



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Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 01/06/2011 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Density: 1.1 92 Boiling Point: > 240 °C (464 °F) 9.3 Melting Point: ND 9.4 Evaporation Rate: ND 9.5 Vapor Pressure ND Molecular Weight: 9.6 ND 9.7 Appearance & Color Translucent white 9.8 Odor Threshold: odorless Solubility: 9.9 ND 9.10 ND 9.11 Viscosity: ND 9.12 Other Information: ND 10. STABILITY & REACTIVITY 10.1 Stability Stable under normal conditions of use (see section 7). 10.2 Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decompositions products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid: Use or storage near open flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances. 10.5 Incompatible Substances: Strong oxidizers such as peroxides, nitrates, and chlorates. 11. TOXICOLOGICAL INFORMATION Toxicity Data: This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have not been presented in this document. 11.2 Acute Toxicity See section 2.5 11.3 Chronic Toxicity: See section 2.6 11.4 Suspected Carcinogen: Nο 11.5 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. Mutagenicity This product is not reported to produce embryotoxic effects in humans. Embryotoxicity This product is not reported to produce teratogenic effects in humans. Teratogenicity This product is not reported to produce reproductive effects in humans. Reproductive Toxicity 11.6 Irritancy of Product: See Section 2.3 11 7 Biological Exposure Indices: 11.8 Physician Recommendations: Treat symptomatically



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Prepa	ared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revis	sion Date: 01/06/2011
	12. ECOLOGICAL INFORMATION	
12.1	Environmental Stability:	
	This product will slowly volatile from soil. Components of this product will slowly decompose into organic co	ompounds.
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 bodies of water. Releases of larg	ge volumes of this product
	are expected to be harmful or fatal to overexposed aquatic life.	
	13. DISPOSAL CONSIDERATIONS	
13.1	Waste Disposal:	
	Dispose of in accordance with federal, state or local regulations.	
13.2	Special Considerations:	
	NA NA	
	14. TRANSPORTATION INFORMATION	
	easic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for eacti cional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	h 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 INFORMATION	
15.1	SARA Reporting Requirements:	
	This material does not contain chemicals which are subject to the reporting requirements of Section 313 of Part 373.	f SARA Title III and 40 CFR
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 exempt from inventory	tory status.
15.4	CERCLA Reportable Quantity (RQ):	
	This product has no CERCLA Reportable Quantity. However, release into a waterway may require reporting Center.	to the National Response
15.5	Other Federal Requirements:	
	NA NA	
15.6	Other Canadian Regulations This product has been classified according to the hazard criteria of the Controlled Products Regulations	
	(CPR) and the MSDS contains all of the information required by the CPR. The components of this	T)
	product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities	\cup
	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 OSHA;	
	Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; New York Right to Kno	
	to Know list; Michigan Critical Substances List; and Florida Toxic Substances List. Under New Jersey Right	t to Know Act L1983 this
	product is to be identified as follows: Petroleum Oil (Grease).	



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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: (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 offe	ered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other
	government regulations must be review knowledge, the information contained completeness are not guaranteed and contained herein relates only to the specific process.	red for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s dherein 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 aged 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. PO Box 787 Sisters, OR 97759-0787 USA Phone: +1 (310) 370-3600 Fax: +1 (310) 370-5700 e-mail: shipmate@shipmate.com	ShipMate* Dangerous Goods Training G-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
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.					

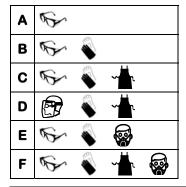
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

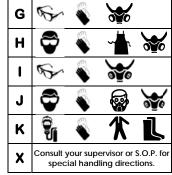
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:







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

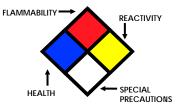
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition	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
LO ₅₀	,9 ,
	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:

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