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MSDS-E-D100P

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 01/15/2008

1. PRODUCT IDENTIFICATION				CHEMICAL RESPONSE CARD:			
1.1	Product Name:	DeoxIT® D100P PEN RESPONSE 🙇 🛒					
1.2	Chemical Name:	See ingredients listed in section 2					
1.3	Synonyms:	DeoxIT® D100P	WHMIS:				
1.4	Trade Names:	DeoxIT® D100P					
1.5	Product Use:	Clean, deoxidize & improve electrical contacts & connectors	HEALTH:			0	
1.6	Distributed By:	The Easthill Group dba/The Eastwood Company	FLAMMABILITY:				0
1.7	Address:	263 Shoemaker Rd., Pottstown, PA 19464	REACTIVITY:				0
1.8	Phone:	USA & Canada: 800-345-1178 Outside USA: 610-323-2200	PERSONAL	PROTEC	TION:		Α
1.9	Emergency Phone:	CHEMTREC 1-800-424-9300					
1.10	Other Product Names:						

2. COMPOSITION & INGREDIENT INFORMATION

					EXPOSURE LIMITS IN AIR (mg/m³)					
					AC	GIH		OSHA		OTHER
					TLV	STEL	PEL	STEL	IDLH	
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	ppm	ppm	ppm	ppm	ppm	
DeoxIT® D100L	TRADE SECRET	UNK	UNK	100	NE	NE	NE	NE	NE	

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 Z400.1-1998 format.

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MSDS-E-D100P Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 01/15/2008 3. HAZARD IDENTIFICATION 3.1 Hazard Identification: DeoxIT D100L is non-volatile, non-hazardous and non-flammable. 3.2 Routes of Entry: Inhalation: Absorption: YES Ingestion: YES 3.3 Effects of Exposure: Mild to moderate irritation. EYES: Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). SKIN: INGESTION: Gastrointestinal irritation & discomfort. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract. 3.4 Symptoms of Overexposure EYES: Mild irritation, redness, and watering. SKIN: Contact dermatitis, characterized by localized red or puffy dry skin and itching. INGESTION: Nausea, vomiting, and diarrhea. INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination. 3.5 Acute Health Effects: EYES: Mild to moderate irritation. SKIN: Repeated exposure at site of contact may cause contact dermatitis (localized redness or rash). INGESTION: Gastrointestinal irritation and central nervous system depression. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract. 3.6 Chronic Health Effects: None reported by the manufacturer. 3.7 Target Organs: Eyes and skin. 4. FIRST AID MEASURES 4.1 First Aid: EYES: Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention. SKIN: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. INGESTION: Do not induce vomiting! Drink plenty of water. If irritation persists, contact a physician. INHALATION: Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration. 4.2 Medical Conditions Aggravated by Exposure: HEALTH 0 None reported by the manufacturer. **FLAMMABILITY** 0 REACTIVITY 0 PROTECTIVE EQUIPMENT Α

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MSDS-E-D100P Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 01/15/2008 5. FIREFIGHTING MEASURES Flashpoint & Method: > 250 °C (482 °F) 52 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 Firefighting Procedures 5.6 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 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. Storage & Handling: 72 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. Normal shelf-life: 2-3 years. 7.3 Special Precautions: Empty containers may contain product residues. 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 None required, when used with adequate ventilation. 8.3 Eve Protection: 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 **Body Protection:** Use as necessary to prevent skin contact.

Page 4 of 7 MATERIAL SAFETY DATA SHEET MSDS-E-D100P Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 01/15/2008 9. PHYSICAL & CHEMICAL PROPERTIES 0.72 9.2 Boiling Point: > 220 °C (428 °F) Melting Point: 9.3 NA **Evaporation Rate:** NA 9.5 Vapor Pressure: < 0.01 mm Hg @ 20 °C (68 °F) 9.6 Molecular Weiaht: NA 9.7 Appearance & Color: Light red 9.8 Odor Threshold: Ethereal/hydrocarbon odor 9.9 Solubility: Not soluble in water 9.10 Ph NA 9.11 Viscosity: 5.4 - 7.5 cSt @ 104 °F 9.12 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions of use (see section 7). 10.2 Hazardous Decomposition Products: Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution. 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 and heavily trafficked areas. 10.5 Incompatible Substances: Strong oxidizers. 11. TOXICOLOGICAL INFORMATION 11.1 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 3.5 11.3 Chronic Toxicity: See section 3.6 11.4 Suspected Carcinogen: 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 3.3 11.7 Biological Exposure Indices: NE 11.8 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds. 12.2 Effects on Plants & Animals: There is no specific data available for this product. Effects on Aquatic Life: 12.3 Releases of large volumes of this product are expected to be harmful or fatal to overexposed aquatic life. 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state or local regulations.

Special Considerations:

13.2

NA

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16. OTHER INFORMATION

16.1 Other Information:

NA

Terms & Definitions:

See page 7 of this MSDS.

16.3 Disclaime

16.2

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:

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http://www.caig.com/

16.5 Prepared by:

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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
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EXPOSURE LIMITS IN AIR:

ACGIH American Conference on Governmental Industrial Hy			
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.									

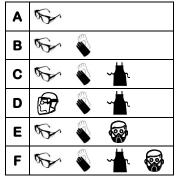
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

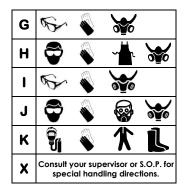
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

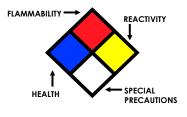
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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,					
	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
-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 _{Io}	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:

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