

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards

### MATERIAL SAFETY DATA SHEET

MSDS Revision: 2.0

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MSDS-E-AX100L

MSDS Revision Date: 02/15/2008

03 1. PRODUCT IDENTIFICATION **CHEMICAL RESPONSE CARD:** 1.1 Product Name: DeoxIT® AxeWipes AX50W **RESPONSE TEAM PPE:** 1.2 Chemical Name: See ingredients listed in section 3 1.3 Synonyms DeoxIT® Axe Wipes AX50W WHMIS: 1 4 Trade Names: DeoxIT® Axe Wipes AX50W (see list below) 1.5 Product Use: **HEALTH:** Clean, deoxidize & lubricate metal musical instrument strings 0 1.6 Manufacturer's Name: CAIG Laboratories, Inc. **FLAMMABILITY:** 0 1.7 Manufacturer's Address: 12200 Thatcher Court, Poway, CA 92064-6876 REACTIVITY: 0 1.8 Business Phone: +1 (800)-224-4123 PERSONAL PROTECTION: 1.9 Emergency Phone: CHEMTREC +1 (703) 527-3887 / +1 (800) 424-9300 1.10 Other Product Names: DeoxIT® AxeWipes, K-AX3W-75 DeoxIT® AxeWipes, AX1W 2. HAZARD IDENTIFICATION 2.1 Hazard Identification: This product is NOT classified as a HAZARDOUS SUBSTANCE or as DANGEROUS GOODS according to the classification criteria of [NOHSC: 1088 (1999)] and ADG Code (Australia). DeoxIT® Axe Wipes AX50W are non-volatile, non-hazardous and non-flammable. 2.2 Routes of Entry: Inhalation: YES Absorption: YES Inaestion: 2.3 Effects of Exposure: Non-irritating when used as directed. Can cause irritation, tearing, and temporary blurred vision. EYES: 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 2.4 Symptoms of Overexposure EYES: Non-irritating when used as directed. Can cause temporary irritation, tearing, and blurred vision. Non-irritating when used as directed. Prolonged or repeated contact may cause temporary contact dermatitis SKIN: (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: EYES: None reported when used as directed. Mild to moderate temporary irritation. 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 and skin.

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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Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 02/15/2008 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m3) **ACGIH OSHA OTHER** PEL STEL **IDLH** TLV STEL % CHEMICAL NAME(S) CAS No. RTECS No. **EINECS No.** ppm ppm ppm ppm ppm CLOTH (POLYESTER NONWOVEN) NA NA NA 80-90 NE NE NE NE NE TRADE SECRET DeoxIT® AX100L NA NA 10-20 NF NF NE NE NE 4. FIRST AID MEASURES First Aid: 4.1 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. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt SKIN: 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 **EYES** 5. FIREFIGHTING MEASURES Flashpoint & Method: > 250 °C (482 °F) 5.2 Autoignition Temperature: NA Flammability Limits: 5.3 Lower Explosive Limit (LEL): ND Upper Explosive Limit (UEL): ND 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 Spil

Ventilate if in enclosed area. Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Wipe and rinse with water. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment.



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Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 02/15/2008 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: Use and store in a cool, dry, well-ventilated area. Do not store near or with any incompatible materials listed in section 10. Open containers may change concentrations, keep tightly closed when not in use. Normal shelf life 2-3 years. 7.3 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). Respiratory Protection: 8.2 None required, when used with adequate ventilation. 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 Body Protection: Use as necessary to prevent skin contact. 9. PHYSICAL & CHEMICAL PROPERTIES 9 1 Density: 0.72 9.2 Boiling Point: > 220 °C (428 °F) Melting Point: NA 9 4 Evaporation Rate: NA 9.5 Vapor Pressure: < 0.01 mm Hg @ 20 °C (68 °F) 9.6 Molecular Weight: 9.7 Appearance & Color: Light amber 9.8 Odor Threshold: Ethereal/hydrocarbon odor Solubility: Not soluble in water 9.10 Ph 9.11 Viscosity: 5.4 - 7.5 cSt @ 104 °F 9.12 VOC (g/L): None 9 13 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: 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.



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Prepo	ared to OSHA, ACC, ANSI, WHA	AIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Rev	vision Date: 02/15/2008					
		11. TOXICOLOGICAL INFORMATION						
11.1	for the components of this product, which are found in the scientific literature. These data have not							
11.2	Aguta Tayloihu	been presented in this document.						
	Acute Toxicity:	See section 3.5						
11.3	Chronic Toxicity:	See section 3.6						
11.4	Suspected Carcinogen:	NE .						
11.5	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.						
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.						
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.						
	Teratogenicity:  Reproductive Toxicity:	This product is not reported to produce teratogenic effects in humans.  This product is not reported to produce reproductive effects in humans.						
11.6	Irritancy of Product:	See Section 3.3						
11.7	Biological Exposure Indices:	NE						
11.8	Physician Recommendations:	1 1 2						
11.0	rnysician kecommenadiions.	Treat symptomatically.						
		12. ECOLOGICAL INFORMATION						
12.1	Environmental Stability:	This product will slowly volatile from soil. Components of this product organic compounds.	will slowly decompose into					
12.2	Effects on Plants & Animals:	There is no specific data available for this product.						
12.3	Effects on Aquatic Life:	Releases of large volumes of this product are expected to be harmful or foliate.	atal to overexposed aquatic					
		13. DISPOSAL CONSIDERATIONS						
		13. DISPOSAL CONSIDERATIONS						
13.1		n federal, state or local regulations.						
13.2	Special Considerations: NA							
		14. TRANSPORTATION INFORMATION						
		roper shipping name, hazard class & division, packing group) is shown for ea nay be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	ach mode of transportation.					
14.1	49 CFR (GND): NOT REGULATED							
14.2								
14.3								
14.4	TDGR (Canadian GND):  NOT REGULATED							
14.5	ADR/RID (EU):							
	NOT REGULATED							
15. REGULATORY INFORMATION								
15.1	15.1 SARA Reporting Requirements:  NA							
15.2								
15.3								
	All chemical substances of thi	s product are listed on the TSCA inventory or are otherwise exempt from inve	entory status.					
15.4	CERCLA Reportable Quantity (RQ):							
15.5	Other Federal Requirements: <b>NA</b>							



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#### 15. REGULATORY INFORMATION- continued

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 product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.



State Regulatory Information:

The primary component of this product is not listed on the following state lists: California OSHA; California Proposition 65; Massachusetts Right to Know List of Chemicals: New Jersey Right to Know List 8:59 Appendix A: Pennsylvania Hazardous Substances List 34 323 Appendix A; Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; and Florida Toxic Substances List.

15.8 67/548/EEC (European Union) Requirements:

The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC.



#### 16. OTHER INFORMATION

16.1 Other Information:

NA

Terms & Definitions: 16.2

See page 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.

Prepared for: 16.4

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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	<b>ACGIH</b> 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

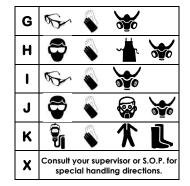
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

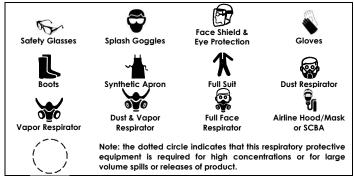
0	Minimal Hazard		
1	Slight Hazard		
2	Moderate Hazard		
3	Severe Hazard		
4	Extreme Hazard		



#### PERSONAL PROTECTION RATINGS:

A	8			
В	S	The second		
С	S		₩	
D			₩	
D E	<b>⊕</b>			





#### OTHER STANDARD ABBREVIATIONS:

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

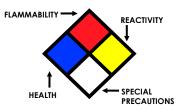
#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

Autoignition Minimum temperature required to initiate combute in air with no other source of ignition		
LEL Lower Explosive Limit - lowest percent of vapor i volume, that will explode or ignite in the pres 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:**

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		
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 materic million parts		
TD <sub>Io</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, 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	DOT U.S. Department of Transportation		
TC	Transport Canada		
EPA	EPA U.S. Environmental Protection Agency		
DSL	DSL Canadian Domestic Substance List		
NDSL	NDSL Canadian Non-Domestic Substance List		
PSL	PSL Canadian Priority Substances List		
TSCA	U.S. Toxic Substance Control Act		
EU	<b>EU</b> European Union (European Union Directive 67/548/EEC)		

#### **EC INFORMATION:**

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