



# MATERIAL SAFETY DATA SHEET

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MSDS-E-CCS503

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards | MSDS Revision: 1.0 | MSDS Revision Date: 08/01/2008

1. PRODUCT IDENTIFICATION			CHEMICAL RESPONSE CARD: <b>00</b>			
1.1	Product Name:	<b>DeoxIT® Brand Screen Cleaner, 22 oz Trigger Pump, Part No. CCS-503</b>	RESPONSE TEAM PPE:			
1.2	Chemical Name:	See ingredients listed in section 3	WHMIS:			
1.3	Synonyms:	DeoxIT® Screen Cleaner				
1.4	Trade Names:	NA	<b>HEALTH:</b>			<b>0</b>
1.5	Product Use:	Electronics Cleaner	<b>FLAMMABILITY:</b>			<b>0</b>
1.6	Manufacturer's Name:	CAIG Laboratories, Inc.	<b>REACTIVITY:</b>			<b>0</b>
1.7	Manufacturer's Address:	12200 Thatcher Court, Poway, CA 92064 USA	<b>PERSONAL PROTECTION:</b>			<b>A</b>
1.8	Business Phone:	+1 (858) 486-8388 / +1 (858) 486-8398 fax	<b>CHEMTREC +1 (703) 527-3887 / +1 (800) 424-9300</b>			
1.9	Emergency Phone:					
1.10	Other Product Names:	NA				

## 2. HAZARD IDENTIFICATION

2.1	Hazard Identification: This product is not classified as a HAZARDOUS SUBSTANCE or as a DANGEROUS GOOD according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). Read and follow label directions and warnings carefully. Prolonged contact can remove body oils, replenish with body lotion.						
2.2	Routes of Entry:	Inhalation:	<b>YES</b>	Absorption:	<b>YES</b>	Ingestion:	<b>NO</b>
2.3	Effects of Exposure: <b>EYES:</b> Non-irritating when used as directed. Can cause irritation, tearing, and blurred vision. <b>SKIN:</b> Non-irritating when used as directed. Can cause minor irritation dry flaking skin. <b>INGESTION:</b> Not probable. Small amounts if swallowed may cause gastrointestinal irritation. <b>INHALATION:</b> Can cause mild nasal irritation.						
2.4	Symptoms of Overexposure: <b>EYES:</b> Non-irritating when used as directed. Can cause irritation, tearing, and blurred vision. <b>SKIN:</b> Non-irritating when used as directed. Can cause minor irritation dry flaking skin. Prolonged contact will remove body oils. <b>INGESTION:</b> Not probable. Small amounts if swallowed may cause gastrointestinal irritation. <b>INHALATION:</b> Non-irritating when used as directed. Can cause mild nasal irritation.						
2.5	Acute Health Effects: <b>EYES:</b> Mild to moderate irritation to eyes. <b>SKIN:</b> Mild irritation and dermatitis (rash), dry flaky skin. Prolonged contact will remove body oils. <b>INGESTION:</b> Not probable. Small amounts if swallowed may cause gastrointestinal irritation. <b>INHALATION:</b> Can cause mild nasal irritation.						
2.6	Chronic Health Effects: None reported by the manufacturer.						
2.7	Target Organs: None reported by the manufacturer.						

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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## 3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> )									
					ACGIH		NOHSC			OSHA			OTHER	
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
WATER	7732-18-5	ZC0110000	231-791-2	75-100	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DeoxIT® Screen Cleaner PROPRIETARY MIXTURE	NA	NA	NA	PROPRIETARY	NA	NA	NA	NA	NA	NA	NA	NA	NA	

## 4. FIRST AID

4.1	<p>First Aid:</p> <p><b>EYES:</b> 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.</p> <p><b>SKIN:</b> Remove contaminated clothing. Wash the skin with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.</p> <p><b>INGESTION:</b> Do not induce vomiting! Call a physician or poison control center for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p><b>INHALATION:</b> Remove victim to fresh air at once. If breathing is difficult, provide supplemental oxygen. If breathing has stopped, provide artificial respiration. Seek immediate medical attention. Provide supportive treatment, keeping victim warm and quiet.</p>										
4.2	<p>Medical Conditions Aggravated by Exposure: None reported by the manufacturer.</p> <table border="1" style="float: right;"> <tr> <td style="background-color: blue; color: white;"><b>HEALTH</b></td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td style="background-color: red; color: white;"><b>FLAMMABILITY</b></td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td style="background-color: yellow; color: black;"><b>REACTIVITY</b></td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td style="background-color: black; color: white;"><b>PROTECTIVE EQUIPMENT</b></td> <td style="text-align: center;"><b>A</b></td> </tr> <tr> <td><b>EYES</b></td> <td></td> </tr> </table>	<b>HEALTH</b>	<b>0</b>	<b>FLAMMABILITY</b>	<b>0</b>	<b>REACTIVITY</b>	<b>0</b>	<b>PROTECTIVE EQUIPMENT</b>	<b>A</b>	<b>EYES</b>	
<b>HEALTH</b>	<b>0</b>										
<b>FLAMMABILITY</b>	<b>0</b>										
<b>REACTIVITY</b>	<b>0</b>										
<b>PROTECTIVE EQUIPMENT</b>	<b>A</b>										
<b>EYES</b>											

## 5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: ND
5.2	Autoignition Temperature: ND
5.3	Flammability Limits: Lower Explosive Limit (LEL): <b>NA</b> Upper Explosive Limit (UEL): <b>NA</b>
5.4	Fire & Explosion Hazards: Use media appropriate for surrounding materials.
5.5	Extinguishing Methods: CO <sub>2</sub> , use media appropriate for surrounding materials.
5.6	Firefighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Avoid breathing vapor or fumes.



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## 6. ACCIDENTAL RELEASE MEASURES

6.1	Spills: 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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## 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. Avoid temperatures greater than 110°F.
7.3	Special Precautions: Direct inhalation of vapor above recommended exposure limit may be harmful. Keep out of reach of children.

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Local exhaust may be necessary to maintain exposures to within applicable limits. 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. Local exhaust ventilation or other engineering controls may be required to control airborne levels below the recommended exposure limits. A respiratory protection program that meets ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use. Avoid breathing vapors.
8.3	Eye Protection: If splashing is anticipated, splash goggles and a face-shield are recommended. Do not wear contact lenses.
8.4	Hand Protection: Where contact is likely, gloves are recommended. Do not wear rings, watches, or jewelry that could entrap the material against the skin.
8.5	Body Protection: None required under normal use. Avoid prolonged contact with skin.

## 9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	1-1.014 at 21°C (70.0°F)
9.2	Boiling Point:	NA
9.3	Melting Point:	NA
9.4	Evaporation Rate:	NA
9.5	Vapor Pressure:	NA
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Milky white liquid
9.8	Odor Threshold:	Odorless
9.9	Solubility:	Soluble
9.10	Ph	7-8
9.11	Viscosity:	NA
9.12	Other Information:	NA



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## 10. STABILITY & REACTIVITY

10.1	Stability: Stable
10.2	Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.
10.3	Hazardous Polymerization: Will not occur.
10.4	Conditions to Avoid: Use or storage near open flames, sparks, high heat (>110 °F) or other heat sources, and proximity to incompatible substances. Evaporation may change concentrations.
10.5	Incompatible Substances: Oxidizing agents

## 11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data: This product has not been tested on animals to obtain toxicological data.
11.2	Acute Toxicity: See section 2.5
11.3	Chronic Toxicity: See section 2.6
11.4	Suspected Carcinogen: This product is not a suspected carcinogen in humans.
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: This product is not reported to produce teratogenic effects in humans.
	Reproductive Toxicity: This product is not reported to produce reproductive effects in humans.
11.6	Irritancy of Product: See Section 2.3
11.7	Biological Exposure Indices: NE
11.8	Physician Recommendations: Treat symptomatically.

## 12. ECOLOGICAL INFORMATION

12.1	Environmental Stability: This product will slowly volatilize 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.
12.3	Effects on Aquatic Life: This material should be kept out of sewage and drainage systems and all bodies of water. Releases of large 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: Dispose of in accordance with federal, state or local regulations



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## 14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

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	SCT (MEXICO): NOT REGULATED
14.7	ADGR (AUS): NOT REGULATED

## 15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: NA
15.2	SARA Threshold Planning Quantity: None of the chemicals in this product have a TPQ.
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.
15.4	CERCLA Reportable Quantity (RQ): NA
15.5	Other Federal Requirements: <u>Clean Air Act:</u> None of the chemicals in this product are listed as Hazardous Substances under the CAA. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors. <u>Clean Water Act:</u> None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA. <u>OSHA:</u> None of the chemicals in this product are considered highly hazardous by OSHA.
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 product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.
15.7	State Regulatory Information: California No Significant Risk Level: None of the chemicals in this product are listed.
15.8	67/548/EEC (European Union) Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC. (Xi) Irritant R: 36 Irritating to eyes. S: 2 Keep out of reach of children S: 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).





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## 16. OTHER INFORMATION

16.1	Other Information: NA
16.2	Terms & Definitions: Please see 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.
16.4	Prepared for: <b>CAIG Laboratories, Inc.</b> 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax <a href="http://www.caig.com/">http://www.caig.com/</a> 
16.5	Prepared by: <b>ShipMate, Inc.</b> PO Box 787 Sisters, OR 97759-0787 USA Phone: +1 (310) 370-3600 Fax: +1 (310) 370-5700 e-mail: <a href="mailto:shipmate@shipmate.com">shipmate@shipmate.com</a> 



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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:

<b>CAS No.</b>	Chemical Abstract Service Number
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### EXPOSURE LIMITS IN AIR:

<b>ACGIH</b>	American Conference on Governmental Industrial Hygienists
<b>TLV</b>	Threshold Limit Value
<b>OSHA</b>	U.S. Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>IDLH</b>	Immediately Dangerous to Life and Health

### FIRST AID MEASURES:

<b>CPR</b>	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.
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### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

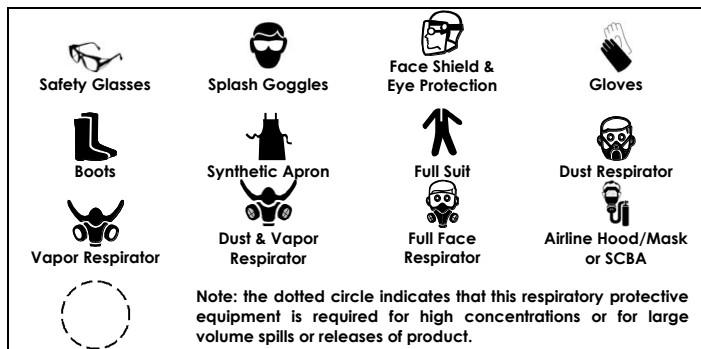
#### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

<b>0</b>	Minimal Hazard
<b>1</b>	Slight Hazard
<b>2</b>	Moderate Hazard
<b>3</b>	Severe Hazard
<b>4</b>	Extreme Hazard



#### PERSONAL PROTECTION RATINGS:

<b>A</b>		<b>G</b>	
<b>B</b>		<b>H</b>	
<b>C</b>		<b>I</b>	
<b>D</b>		<b>J</b>	
<b>E</b>		<b>K</b>	
<b>F</b>		<b>X</b>	Consult your supervisor or S.O.P. for special handling directions.



### OTHER STANDARD ABBREVIATIONS:

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

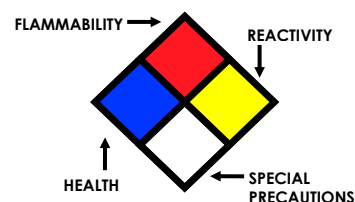
### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

<b>Autoignition Temperature</b>	Minimum temperature required to initiate combustion in air with no other source of ignition
<b>LEL</b>	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
<b>UEL</b>	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:

<b>0</b>	Minimal Hazard
<b>1</b>	Slight Hazard
<b>2</b>	Moderate Hazard
<b>3</b>	Severe Hazard
<b>4</b>	Extreme Hazard
<b>ACD</b>	Acidic
<b>ALK</b>	Alkaline
<b>COR</b>	Corrosive
<b>-W</b>	Use No Water
<b>OX</b>	Oxidizer



#### TOXICOLOGICAL INFORMATION:

<b>LD<sub>50</sub></b>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
<b>LC<sub>50</sub></b>	Lethal concentration (gases) which kills 50% of the exposed animal
<b>ppm</b>	Concentration expressed in parts of material per million parts
<b>TD<sub>10</sub></b>	Lowest dose to cause a symptom
<b>TCLo</b>	Lowest concentration to cause a symptom
<b>TD<sub>10</sub>, LD<sub>10</sub>, &amp; LD<sub>0</sub> or TC, TC<sub>0</sub>, LC<sub>10</sub>, &amp; LC<sub>0</sub></b>	Lowest dose (or concentration) to cause lethal or toxic effects
<b>IARC</b>	International Agency for Research on Cancer
<b>NTP</b>	National Toxicology Program
<b>RTECS</b>	Registry of Toxic Effects of Chemical Substances
<b>BCF</b>	Bioconcentration Factor
<b>TL<sub>m</sub></b>	Median threshold limit
<b>log K<sub>ow</sub> or log K<sub>oc</sub></b>	Coefficient of Oil/Water Distribution

#### REGULATORY INFORMATION:

<b>WHMIS</b>	Canadian Workplace Hazardous Material Information System
<b>DOT</b>	U.S. Department of Transportation
<b>TC</b>	Transport Canada
<b>EPA</b>	U.S. Environmental Protection Agency
<b>DSL</b>	Canadian Domestic Substance List
<b>NDSL</b>	Canadian Non-Domestic Substance List
<b>PSL</b>	Canadian Priority Substances List
<b>TSCA</b>	U.S. Toxic Substance Control Act
<b>EU</b>	European Union (European Union Directive 67/548/EEC)

#### EC INFORMATION:

<b>C</b>	<b>E</b>	<b>F</b>	<b>N</b>	<b>O</b>	<b>T+</b>	<b>Xi</b>	<b>Xn</b>
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful