



MATERIAL SAFETY DATA SHEET

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MSDS-E-DP5S-6




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

MSDS Revision: 1.0

MSDS Revision Date: 09/09/2006

1. PRODUCT IDENTIFICATION

CHEMICAL RESPONSE CARD: **03**

| | | | | | | | |
|------|-------------------------|---|----------------------|---|---|--|---|
| 1.1 | Product Name: | DeoxIT® DP5S-6 Pump Spray | RESPONSE TEAM PPE: |  |  | | |
| 1.2 | Chemical Name: | See Ingredients listed in section 2 | WHMIS: |  | | | |
| 1.3 | Synonyms: | DeoxIT® DP5S-6 | HEALTH: | | | | 1 |
| 1.4 | Trade Names: | DeoxIT® DP5S-6 | FLAMMABILITY: | | | | 1 |
| 1.5 | Product Use: | Clean, deoxidize & improve electrical contacts & connectors | REACTIVITY: | | | | 0 |
| 1.6 | Manufacturer's Name: | CAIG Laboratories, Inc. | PERSONAL PROTECTION: | | | | A |
| 1.7 | Manufacturer's Address: | 12200 Thatcher Court, Poway, CA 92064-6876 | | | | | |
| 1.8 | Business Phone: | +1 (800)-224-4123 | | | | | |
| 1.9 | Emergency Phone: | CHEMTREC 1-800-424-9300/1-703-527-3887 | | | | | |
| 1.10 | Other Product Names: | | | | | | |

2. COMPOSITION & INGREDIENT INFORMATION

| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | EXPOSURE LIMITS IN AIR (mg/m³) | | | | |
|------------------|--------------|-----------|------------|----|--------------------------------|----------|---------|----------|-------|
| | | | | | ACGIH | | OSHA | | OTHER |
| | | | | | TLV ppm | STEL ppm | PEL ppm | STEL ppm | |
| DeoxIT® D100L | TRADE SECRET | UNK | UNK | 25 | NE | NE | NE | NE | NE |
| Mineral oil | 64741-44-2 | UNK | UNK | 75 | 5 * | 10 * | 5 * | NE | NE |

* For oil mist

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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3. HAZARD IDENTIFICATION

| | | | | | | | |
|-----|--|-------------|-----|-------------|-----|------------|-----|
| 3.1 | Hazard Identification: DeoxIT D100L is non-volatile, non-hazardous and non-flammable. | | | | | | |
| 3.2 | Routes of Entry: | Inhalation: | YES | Absorption: | YES | Ingestion: | YES |
| 3.3 | Effects of Exposure: EYES: Mild to moderate irritation. SKIN: Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). 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 | | 1 |
| | None reported by the manufacturer. | | | FLAMMABILITY | | 1 |
| | | | | REACTIVITY | | 0 |
| | | | | PROTECTIVE EQUIPMENT | | A |
| | | | | EYES | | |



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5. FIREFIGHTING MEASURES

| | | | | | |
|-----|--|---|-----------|------------------------------|-----------|
| 5.1 | Flashpoint & Method: > 115 °C (239 °F) | | | | |
| 5.2 | Autoignition Temperature: NA | | | | |
| 5.3 | Flammability Limits: | 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 | | | | |
| 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 | 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. 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 | Respiratory Protection: None required, when used with adequate ventilation. |
| 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

| | | |
|------|---------------------|---------------------------|
| 9.1 | Specific Gravity: | 0.84 |
| 9.2 | Boiling Point: | > 500 °F |
| 9.3 | Melting Point: | NA |
| 9.4 | Evaporation Rate: | NA |
| 9.5 | Vapor Pressure: | NA |
| 9.6 | Molecular Weight: | 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: | 5.1 – 7.1 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: | 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: | 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 3.3 |
| 11.7 | Biological Exposure Indices: | NE |
| 11.8 | Physician Recommendations: | Treat symptomatically. |

12. ECOLOGICAL INFORMATION

| | | |
|------|------------------------------|---|
| 12.1 | 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. |
| 12.3 | Effects on Aquatic Life: | 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: | NA |



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14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, 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

15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements:
NA

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 status.

15.4 CERCLA Reportable Quantity (RQ):
NA

15.5 Other Federal Requirements:
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 product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List.



15.7 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.





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16. OTHER INFORMATION

16.1 Other Information:

NA

16.2 Terms & Definitions:

See page 7 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:

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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 |
|---------|----------------------------------|

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

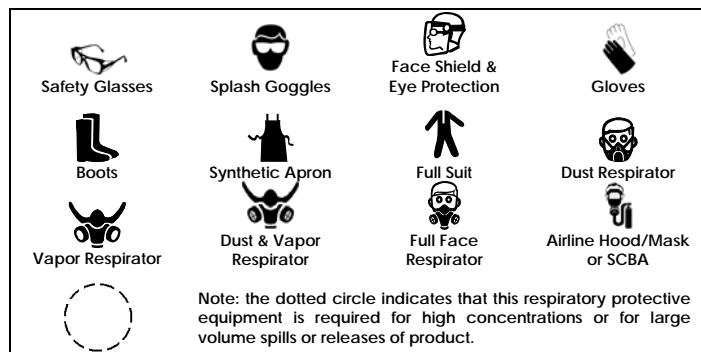
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

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



OTHER STANDARD ABBREVIATIONS:

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

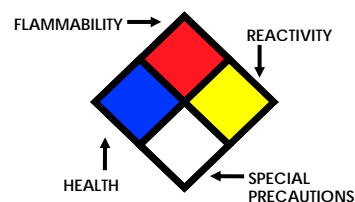
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

| | |
|--------------------------|---|
| Autoignition Temperature | Minimum temperature required to initiate combustion 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:

| | |
|-----|-----------------|
| 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 |
| LC ₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal |
| ppm | Concentration expressed in parts of material per million parts |
| TD ₁₀ | Lowest dose to cause a symptom |
| TCLo | Lowest concentration to cause a symptom |
| TD ₁₀ , LD ₁₀ , & LD ₀ or TC, TC ₀ , LC ₁₀ , & LC ₀ | Lowest dose (or concentration) to cause lethal or toxic effects |
| IARC | International Agency for Research on Cancer |
| NTP | National Toxicology Program |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| BCF | Bioconcentration Factor |
| TL _m | Median threshold limit |
| log K _{ow} or log K _{oc} | 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:

| | | | | | | | |
|-----------|-----------|-----------|---------|-----------|-------|----------|---------|
| | | | | | | | |
| C | E | F | N | O | T+ | Xi | Xn |
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Toxic | Irritant | Harmful |