

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

MATERIAL SAFETY DATA SHEET

MSDS Revision: 1.0

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MSDS-E-DDW-V610

MSDS Revision Date: 09/01/2007

1. PRODUCT IDENTIFICATION **CHEMICAL RESPONSE CARD:** 21 Product Name: DeoxIT® DEGREASER WASH, **RESPONSE** DDW-V610, 10 oz. **TEAM PPE:** 1.2 Chemical Name: See ingredients listed in section 3 1.3 Synonyms: Degreaser Wash WHMIS: 1.4 Trade Names: NA 1.5 Product Use: Aerosol Electronics Degreaser Cleaner **HEALTH:** 1 1.6 Manufacturer's Name: 3 CAIG Laboratories, Inc. FLAMMABILITY: 1.7 Manufacturer's 12200 Thatcher Court, Poway, CA 92064-6876 REACTIVITY: 0 1.8 Business Phone: +1 (800) 224-4123 PERSONAL PROTECTION: В 1.9 Emergency Phone: CHEMTREC +1 (703) 527-3887 / +1 (800) 424-9300 1.10 Other Product Names: NA 2. HAZARD IDENTIFICATION 2.1 Hazard Identification: This product is classified as a hazardous substance and as a dangerous good according to the classification criteria of NOHSC and ADG Code (Australia). Warning! Extremely flammable. Contents under pressure. Do not puncture or incinerate. Keep away from heat, sparks, and flame. Use only with adequate ventilation. Keep containers closed when not in use. Gross inhalation over exposure may cause central nervous system depression. Routes of Entry: 2.2 Inhalation: YES Absorption: YES Ingestion: YES 2.3 Effects of Exposure: Can cause irritation, tearing, and blurred vision. EYES: Can cause minor irritation and burns. SKIN: INGESTION: Can cause damage to throat and esophagus. Can cause nausea, vomiting and diarrhea. INHALATION: Can cause nasal irritation, dizziness, nausea and headache. Symptoms of Overexposure: 24 EYES: Mild irritation, redness, and watering. SKIN. Contact dermatitis, characterized by localized red or puffy dry skin and itching. INGESTION: May cause gastro intestinal irritation, nausea, vomiting, and diarrhea. INHALATION: Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drowsiness, slurred speech, nausea, and possible nervous system depression. Gross overexposure by purposely inhaling fumes may cause central nervous system depression or death. 2.5 Acute Health Effects: Mild to moderate irritation to eyes. EYES: SKIN: Mild irritation and dermatitis (rash). INGESTION: May cause gastrointestinal irritation. INHALATION: May irritate mucous membranes and upper respiratory system irritation and discomfort. Prolonged overexposure may cause central nervous system depression or death. Chronic Health Effects: 26 None reported by the manufacturer. 27 Target Organs: Eyes, Skin, Lungs

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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| 2 | COMPOSITION & | INCPEDIENT | INIE O DAA A TION |
|----|--------------------------|------------|-------------------|
| J. | COMFOSITION & | INGREDIENI | |

| | | | | | EXPOSURE LIMITS IN AIR (mg/m³) | | | | | |
|------------------|----------|-----------|------------|--------|--------------------------------|---------|------|-------|------|------------------------|
| | | | | | ACGIH | l - ppm | | SHA - | ppm | OTHER |
| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | TLV | STEL | PEL | STEL | IDLH | |
| N-HEPTANE | 142-82-5 | MI7700000 | 205-563-8 | ≤ 60.0 | 400 | 500 | 500 | 2000 | 750 | |
| ACETONE | 64-64-1 | AL3150000 | 200-662-2 | ≤ 25.0 | 500 | 750 | 1000 | 2400 | 2500 | |
| ETHYL ALCOHOL | 64-17-5 | KQ6300000 | 200-578-6 | ≤ 25.0 | 1000 | 1900 | 1000 | 1900 | 3300 | |
| METHYL ALCOHOL | 67-56-1 | PC1400000 | 200-659-6 | ≤ 5.0 | 200 | 250 | 200 | 260 | 6000 | |
| CARBON DIOXIDE | 124-38-9 | FF6400000 | 204-696-9 | ≤ 4.0 | 5000 | 30000 | 5000 | 1500 | 9000 | ASPHYXIANT IRRITANT |
| | | | | | | | | | | |

4. FIRST AID

4.1 First Aid:

EYES: As a precaution remove contact lenses if worn and 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. 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.

INGESTION: Do not induce vomiting! Call a physician or poison control center for assistance and instructions. Seek immediate

medial attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of

INHALATION: 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.

4.2 Medical Conditions Aggravated by Exposure:

None reported by the manufacturer.

| HEALTH | | | | 1 |
|----------------------|------|-------|---|---|
| FLAMMABILITY | | | _ | 3 |
| REACTIVITY | | | | 0 |
| PROTECTIVE EQUIPMENT | | | T | В |
| EYES | SKIN | LUNGS | | |

5. FIREFIGHTING MEASURES

- 5.1 Flashpoint & Method:
 - 30 °F, Estimated
- 5.2 Autoianition Temperature:

ND

Flammability Limits: 5.3 Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA

5.4 Fire & Explosion Hazards:

Warning! Contents under pressure! Highly flammable liquid. NFPA Level 3 Aerosol.

Closed containers may explode when exposed to extreme heat.

5.5 Extinguishing Methods:

> Large fire - Alcohol foam or water fog. Small fire - Dry chemical or carbon dioxide. Use water to cool fire exposed containers. Do not use water in straight streams. Water spray may be ineffective. If water is used, fog nozzles are preferable.

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. Avoid breathing vapor or fumes.





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6. ACCIDENTAL RELEASE MEASURES

6.1 Spills

Ventilate if in enclosed area. Eliminate all ignition sources.

<u>Small Spills:</u> Wipe, scrape or soak up in an inert material like vermiculite, floor absorbent, or other absorbent material and transfer to isolated well ventilated area. Leaking containers should be removed to an isolated well ventilated area and transferred to other suitable container. Do not puncture or incinerate container, contents under pressure.

<u>Large Spills:</u> Contain by diking with a non-combustible absorbent inorganic material. Prevent runoff from entering sewers, storm drains, surface water and soil. Transfer to a DOT approved container.

Must be in accordance with federal, state and local laws and regulations.

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. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Contents under pressure. Do not store at temperatures above 120 °F. Exposure to high temperatures may cause bursting. Do not store in unmarked containers or storage devices. Container is not designed to contain pressure.

7.3 Special Precautions:

Empty containers may contain product residues. Do not use pressure to empty container, or it may rupture with explosive force. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

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). Do not puncture containers.

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 mist and vapors.

8.3 Eye Protection:

Safety glasses with side shields or goggles should be used with this product. 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, impervious 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 and wear long sleeves. A safety shower may be needed for emergency situations.

9. PHYSICAL & CHEMICAL PROPERTIES

| 9.1 | Density: | NA NA |
|------|--------------------------------|-----------------------------|
| 9.2 | Boiling Point: | NA |
| 9.3 | Melting Point: | ND |
| 9.4 | Evaporation Rate: | NA |
| 9.5 | Vapor Pressure: | NA |
| 9.6 | Molecular Weight: | NA |
| 9.7 | Appearance & Color: | Colorless liquid in aerosol |
| 9.8 | Odor Threshold: | Mild alcohol |
| 9.9 | Solubility: | NA |
| 9.10 | Ph | ND |
| 9.11 | Viscosity: | NA |
| 9.12 | Other Information: VOC Content | 563 g/L |



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| | | 10. STABILITY & | REACTIVITY | | |
|-----|---|---|------------------------------|--|--|
| 0.1 | Stability: | | | | |
| | Stable | | | | |
| 0.2 | Hazardous Decomposition Produc | | | | |
| 0.0 | Carbon dioxide, carbon monoxide. | | | | |
| 0.3 | Hazardous Polymerization: | | | | |
| 0.4 | Will not occur. Conditions to Avoid: | | | | |
| 0.4 | | flames enades high heat (>100 PF) or | other heat sources and ou | rovimity to incompatible substances an | |
| | heavily trafficked areas. | n flames, sparks, high heat (>120 °F) or c | officer near sources, and pr | oximity to incompatible substances an | |
| 0.5 | Incompatible Substances: | | | | |
| 0.0 | · | trated Oxygen. Materials to avoid – zinc | copper tip and alkali me | etals (sodium potassium lithium etc.) | |
| | T Oxidizing agents, concert | indied exygen. Materials to avoid 2016 | э, соррог, пт апа акап тк | Stats (sociotti, porassiotti, ilitilotti, etc.). | |
| | | 11. TOXICOLOGICA | LINFORMATION | | |
| 1.1 | Toxicity Data: | | | | |
| | This product has not bee | n tested on animals to obtain toxicolog | gical data. There are toxi | cology data for the components of th | |
| | | I in the scientific literature. This data has | | | |
| | Ethyl Alcohol (CAS# 64-17 | 7-5) IARC: Group 3 carcinogen | | | |
| 1.2 | Acute Toxicity: | <u> </u> | | | |
| | See section 2.5 | | | | |
| 1.3 | Chronic Toxicity: | | | | |
| | See section 2.6 | | | | |
| 1.4 | Suspected Carcinogen: | | | | |
| | This product is not a suspected carcinogen in humans. | | | | |
| 1.5 | Reproductive Toxicity: | | | | |
| | This product is not reporte | ed to produce reproductive toxicity in hu | | | |
| | Mutagenicity: | This product is not reported to prod | | | |
| | Embryotoxicity: | This product is not reported to prod | • | | |
| | Teratogenicity: | This product is not reported to prod | | | |
| 1 / | Reproductive Toxicity: | This product is not reported to prod | auce reproductive effects | in numans. | |
| 1.6 | Irritancy of Product: See Section 2.3 | | | | |
| 1.7 | Biological Exposure Indices: | | | | |
| 1./ | NE | | | | |
| 1.8 | Physician Recommendations: | | | | |
| | Treat symptomatically. | | | | |
| | Thoursymptomaneany. | | | | |
| | | 12. ECOLOGICAL | INFORMATION | | |
| 2.1 | Environmental Stability: | | | | |
| | This product will slowly vo | olatilize from soil. Components of this pro | oduct will slowly decompos | se into organic compounds. | |
| 2.2 | Effects on Plants & Animals: | | | | |
| | | available for this product. | | | |
| 2.3 | Effects on Aquatic Life: | | | | |
| | | ept out of sewage and drainage system nful or fatal to overexposed aquatic life. | | Releases of large volumes of this produc | |
| | | 13. DISPOSAL COI | NSIDERATIONS | | |
| | | · | · | | |
| 3.1 | Waste Disposal: Dispose of in accordance | with federal state or local regulations | D001 Ignitable | | |
| 3.1 | · · · · · · · · · · · · · · · · · · · | e with federal, state or local regulations. | D001 Ignitable. | | |



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14. TRANSPORTATION INFORMATION

14.2 IATA (AIR):
ID8000, CONSUMER COMMODITY, 9 (Packing Instructions 910)

14.3 IMDG (OCN):
UN1950, AEROSOLS, 2.1, LTD QTY

14.4 TDGR (Canadian GND):
MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE"

14.5 ADR/RID (EU):
UN1950, AEROSOLS, 2, LTD QTY

14.6 MEXICO (SCT):
UN1950, AEROSOLES, 2, CANTIDAD LIMITADA



15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements:

This product contains substances that are subject to SARA reporting requirements:

N-Heptane (CAS# 142-82-5); Immediate, delayed, fire.

Acetone (CAS# 64-17-5); Immediate, fire.

Ethanol (CAS# 64-17-5); Acute, chronic, flammable.

Methyl alcohol (CAS# 67-56-1); Acute, flammable.

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):

Acetone: 5000 lb final RQ; 2270 kg final RQ

Methyl Alcohol: 5000 pounds final RQ; 2270 kg final RQ

Ethyl Alcohol: 5000 pounds final RQ; 2270 kg final RQ

15.5 Other Federal Requirements:

Clean Air Act:

This material contains Methyl alcohol listed as a hazardous air pollutant (HAP). 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.

Clean Water Act:

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. OSHA:

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.





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15. REGULATORY INFORMATION- continued

15.7 State Regulatory Information:

N-Heptane (CAS# 142-82-5), can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, and Massachusetts.

Acetone (CAS# 67-64-1), can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, and Massachusetts.

Ethanol (CAS# 67-56-1), can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, and Massachusetts.

<u>Methyl Alcohol (CAS# 67-56-1)</u>, can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, and Massachusetts.

California Prop 65

This product contains Ethyl Alcohol, a chemical known to the state of California to cause birth defects or other reproductive harm.

WGK (Water Danger/Protection)

Ethanol (CAS# 64-17-5): 0

Methyl Alcohol (CAS# 67-56-1): 1

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.

(F) Flammable (Xi) Irritant

R: 11 Highly flammable.

S: 2 Keep out of reach of children

S: 3/7 Keep container closed and dry in a well ventilated space

S: 16 Keep away from sources of ignition - No smoking.

\$ 36/37 Wear suitable protective clothing and gloves.

S: 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S: 7 Keep containers tightly closed.





16. OTHER INFORMATION

| 16.1 | Other Information: | | | | |
|------|---|--|--|--|--|
| | NA NA | | | | |
| 16.2 | Terms & Definitions: | | | | |
| | 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. Othe 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: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax | | | | |

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 |
|---------|-------------------------------------|
| CAS NO. | CHELLICAL ADSILACT SELVICE HOLLIDEL |

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

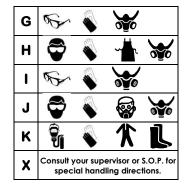
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

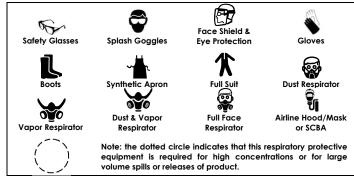
| 0 | Minimal Hazard |
|---|-----------------|
| 1 | Slight Hazard |
| 2 | Moderate Hazard |
| 3 | Severe Hazard |
| 4 | Extreme Hazard |



PERSONAL PROTECTION RATINGS:

| Α | \$ | | | |
|---|----|-----|---|--|
| В | 8 | | | |
| С | S | | * | |
| D | | | * | |
| | | -00 | | |
| E | 8 | | | |





OTHER STANDARD ABBREVIATIONS:

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

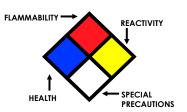
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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 | | | |
| ОХ | 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 permillion 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:

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