1. PRODUCT & COMPANY IDENTIFICATION

1.1 Product Name: DEOXIT® GREASE, TYPE M260CP (COPPER PARTICLES)

1.2 Chemical Name: NA

1.3 Synonyms: DeoxIT® Grease Type M260CP, (Part No. M260CP)

1.4 Trade Names: DeoxIT® Grease Type M260CP, P/N M260-C2G (2 g); P/N M260-C1 (28 g); P/N M260-C50G (50 g); P/N M260-C8TP (226 g); P/N M260-C8 (226 g); P/N M260-C35 (15.9 Kg)

1.5 Product Uses & Restrictions: Lubricating Grease

1.6 Distributor’s Name: CAIG Laboratories, Inc.

1.7 Distributor’s Address: 12200 Thatcher Court, Poway, CA 92064-6876 USA

1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN XXXXX)

1.9 Business Phone / Fax: +1 (800) 224-4123

2. HAZARDS IDENTIFICATION

2.1 Hazard Identification:

This product is classified as a HAZARDOUS SUBSTANCE but NOT as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). The highly refined mineral oil contains < 3% (w/w%) DMSO extract, according to IP346.

DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

Hazard Statements (H): H304 – May be fatal if swallowed and enters airways.

Precautionary Statements (P): P280 – Wear protective gloves and eye protection. P302 + P352 – In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes lifting upper and lower lids, occasionally.

3. COMPOSITION & INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>CHEMICAL NAME(S)</th>
<th>CAS No.</th>
<th>RTECS No.</th>
<th>EINECS No.</th>
<th>% (g)</th>
<th>ACGIH TLV ppm</th>
<th>NOHSC STEL ppm</th>
<th>OSHA PEL ppm</th>
</tr>
</thead>
</table>

PETROLEUM (BENTONE) GREASE LUBRICATING BASE OIL CONTAINING ONE OR MORE OF THE FOLLOWING INGREDIENTS:

<table>
<thead>
<tr>
<th>DISTILLATES (PETROLUM), SOLVENT-DEWAXED HEAVY PARAFFINIC</th>
<th>84742-65-0</th>
<th>SE7500000</th>
<th>265-169-7</th>
<th>NA</th>
<th>10</th>
<th>NF</th>
<th>NF</th>
<th>NF</th>
<th>100</th>
<th>10</th>
<th>NA</th>
<th>RESP MIST</th>
</tr>
</thead>
</table>

DISTILLATES (PETROLUM), SOLVENT-REFINED

<table>
<thead>
<tr>
<th>DISTILLATES (PETROLUM), SOLVENT-DEWAXED HEAVY PARAFFINIC</th>
<th>84741-88-4</th>
<th>PY8040500</th>
<th>265-090-8</th>
<th>NA</th>
<th>10</th>
<th>NF</th>
<th>NF</th>
<th>NF</th>
<th>5</th>
<th>10</th>
<th>NA</th>
<th>RESP MIST</th>
</tr>
</thead>
</table>

ZINC ALKYLTHIOPHOSPHATE 86849-42-3

COPPER 7440-50-8 GL5325000 231-159-6 < 9.0 0.2 NA NF 0.2 NF 0.1 NA 100

4. FIRST AID MEASURES

4.1 First Aid:

Ingestion: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.

Eyes: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes lifting upper and lower lids, occasionally.

Skin: Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at least 15 minutes.

Inhalation: Remove victim to fresh air at once. If breathing difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention.
## 4. FIRST AID MEASURES

### 4.2 Effects of Exposure:
- **Ingestion:** If product is swallowed, may cause nausea, temporary gastrointestinal irritation, vomiting and/or diarrhea. Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.
- **Eyes:** May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.
- **Skin:** None expected.
- **Inhalation:** None expected.

### 4.3 Symptoms of Overexposure:
- **Ingestion:** Nausea, intestinal discomfort, vomiting and/or diarrhea.
- **Eyes:** Overexposure in eyes may cause redness, itching and watering.
- **Skin:** Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite like symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals.

### 4.4 Acute Health Effects:
Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.

### 4.5 Chronic Health Effects:
None reported by the manufacturer.

### 4.6 Target Organs:
- Eyes, Skin

### 4.7 Medical Conditions Aggravated by Exposure:
Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes).

### 5. FIREFIGHTING MEASURES

#### 5.1 Fire & Explosion Hazards:
This product is not flammable. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO₂).

#### 5.2 Extinguishing Methods:
Water, Foam, CO₂, Dry Chemical. Use water spray to cool unopened containers.

#### 5.3 Firefighting Procedures:
Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Spills:
Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.

For **small spills** (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.

For **large spills** (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer product to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

### HANDLING & STORAGE INFORMATION

#### 7.1 Work & Hygiene Practices:
Do not eat, drink, or smoke while handling this product. Wash thoroughly after handling. Avoid contact with flammable or combustible materials. Avoid contamination from any source, including metals, dust and organic materials. Keep bulk covered. Wash unintentional residues with soap and warm water.

#### 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. Container is not designed to contain pressure. Don not use pressure to empty container or it may rupture with explosive force. Normal shelf-life: 2-3 years.

#### 7.3 Special Precautions:
Spilled material may present a slipping hazard if left unattended. Clean all spills promptly. Empty containers may contain product residues. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
### 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

#### 8.1 Exposure Limits:

<table>
<thead>
<tr>
<th>CHEMICAL NAME(S)</th>
<th>ACGIH</th>
<th>NOHSC</th>
<th>OSHA</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC</td>
<td>5</td>
<td>10</td>
<td>NF</td>
<td>NF</td>
</tr>
<tr>
<td>RESIDUAL OILS (PETROLIUM) SOLVENT-REFINED</td>
<td>5</td>
<td>10</td>
<td>NF</td>
<td>NF</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC</td>
<td>5</td>
<td>10</td>
<td>NF</td>
<td>NF</td>
</tr>
<tr>
<td>COPPER</td>
<td>0.2</td>
<td>NA</td>
<td>NF</td>
<td>NF</td>
</tr>
</tbody>
</table>

#### 8.2 Ventilation & Engineering Controls:

When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

#### 8.3 Respiratory Protection:

No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA’s requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.

#### 8.4 Eye Protection:

Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.

#### 8.5 Hand Protection:

None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber or impervious plastic gloves.

#### 8.6 Body Protection:

No apron required when handling small quantities. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.

### 9. PHYSICAL & CHEMICAL PROPERTIES

#### 9.1 Appearance:

Amber/copper

#### 9.2 Odor:

Ethereal / hydrocarbon odor

#### 9.3 Odor Threshold:

NA

#### 9.4 pH:

NA

#### 9.5 Melting Point/Freezing Point:

NA

#### 9.6 Initial Boiling Point/Boiling Range:

> 240 °C (464 °F)

#### 9.7 Flashpoint:

> 244 °C (471 °F) COC (Cleveland Open Cup)

#### 9.8 Upper/Lower Flammability Limits:

NA

#### 9.9 Vapor Pressure:

< 0.01 mm Hg @ 20 °C (68 °F)

#### 9.10 Vapor Density:

NA

#### 9.11 Relative Density:

0.72

#### 9.12 Solubility:

Insoluble

#### 9.13 Partition Coefficient (log P<sub>oct</sub>):

NA

#### 9.14 Autoignition Temperature:

NA

#### 9.15 Decomposition Temperature:

NA

#### 9.16 Viscosity:

5.4 – 7.5 cSt @ 104 °F

#### 9.17 Other Information:

NA

### 10. STABILITY & REACTIVITY

#### 10.1 Stability:

This product is stable.

#### 10.2 Hazardous Decomposition Products:

Oxides of carbon (CO, CO<sub>2</sub>) and sulfur (SO<sub>2</sub>). Liberation of gas may result in dangerous pressure.

#### 10.3 Hazardous Polymerization:

Will not occur.

#### 10.4 Conditions to Avoid:

Excessive heat, and incompatible materials.

#### 10.5 Incompatible Substances:

Avoid extreme heat and ignition sources. Store away from oxidizers.
11. TOXICOLOGICAL INFORMATION

11.1 Routes of Entry:

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Absorption</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

11.2 Toxicity Data:

This product has NOT been tested on animals to obtain toxicity data. Toxicology data, found in scientific literature, is available for some of the components of the product and is not presented in this document.

11.3 Acute Toxicity:

Moderate irritation to eyes and skin near affected areas.

11.4 Chronic Toxicity:

This material may aggravate any pre-existing skin condition (e.g., dermatitis).

11.5 Suspected Carcinogen:

No.

11.6 Reproductive Toxicity:

This product is not reported to produce reproductive toxicity in humans.

11.7 Mutagenicity:

This product is not reported to produce mutagenic effects in humans. This product contains alkyl dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic.

11.8 Embryotoxicity:

This product is not reported to produce embryotoxic effects in humans.

11.9 Teratogenicity:

This product is not reported to cause teratogenic effects in humans.

11.10 Irritancy of Product:

The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.

11.11 Biological Exposure Indices:

NE

11.12 Physician Recommendations:

Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1 Environmental Stability:

There is no specific data available for this product.

12.2 Effects on Plants & Animals:

There are no specific data available for this product.

12.3 Effects on Aquatic Life:

Ethanol: EC50 (Daphnia magna (water flea), 48h): 7.7 - 11.2 mg/L; LC50 (Pimephales promelas (fathead minnow), 96h) > 100 mg/L; Alkyl Dimethyl Benzyl Ammonium Chloride: LC50 (Morone saxatilis (Striped bass, 96h): 10.4 - 19.1 mg/L

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal:

Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler.

13.2 Special Considerations:

NA

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:

This product contains the following chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-know Act of 1986 and of CFR 372; 68649-42-3 Zinc Alkyldithiophosphate

15.2 SARA Threshold Planning Quantity:

There are no specific Threshold Planning Quantities for the components of this product.

15.3 TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory.

15.4 CERCLA Reportable Quantity (RQ):

NA

15.5 Other Federal Requirements:

This product complies with the appropriate sections of the Food and Drug Administration’s 21 CFR Subchapter G, (Cosmetics).

15.6 Other Canadian Regulations:

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS 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. REGULATORY INFORMATION – cont’d

15.7 State Regulatory Information: Copper is found on the following state criteria list(s): Massachusetts Right to Know List (MA), Pennsylvania Hazardous Substance List (PA), Wisconsin Hazardous Substance List (WI), Minnesota Hazardous Substance List (MN), New Jersey Right to Know List (NJ), new York Right to Know List (NY), Michigan Critical Substances List (MI), and Florida Toxic Substances List (FL).

No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).

15.8 Other Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC: Harmful (XN)

Risk Phrases: (R) 20/21/22 36 – Harmful by inhalation, in contact with skin and if swallowed. Safety Phrases: (S) 2-36-45 – Keep out of reach of children. Wear suitable protective clothing. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

16.1 Other Information: DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. Use only as directed. Keep out of reach of children. Wear suitable protective clothing. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). If skin irritation occurs: get medical advice/attention. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.

16.2 Terms & Definitions: See last page of this Safety Data Sheet.

16.3 Disclaimer: This 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 is 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
Tel: +1 (800) CAIG-123 (244-4123)
Fax: +1 (858) 486-8398 fax
http://www.caig.com/

16.5 Prepared by: ShipMate, Inc.
P.O. Box 787
Sisters, Oregon 97759-0787 USA
Tel: +1 (310) 370-3600
Fax: +1 (310) 370-5700
http://www.shipmate.com
DEFINITION OF TERMS
A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:
- CAS No.: Chemical Abstract Service Number
- ACGIH: American Conference on Governmental Industrial Hygienists
- Ceiling Limit
- ES: Exposure Standard (Australia)
- IDLH: Immediately Dangerous to Life and Health
- OSHA: U.S. Occupational Safety and Health Administration
- PEL: Permissible Exposure Limit
- STEL: Short Term Exposure Limit
- TLV: Threshold Limit Value
- TWA: Time Weighted Average

PERSONAL PROTECTION RATINGS:

<table>
<thead>
<tr>
<th>A</th>
<th>G</th>
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<tr>
<td>B</td>
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<td>C</td>
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<td>F</td>
<td>X</td>
</tr>
</tbody>
</table>

Safety Glasses
Splash Goggles
Face Shield & Protective Eyewear
Gloves
Synthetic Apron
Protection Clothing & Full Suit
Dust Respirator
Airline Hood/Mask or SCBA

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.

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:
0 Minimal Hazard
1 Slight Hazard
2 Moderate Hazard
3 Severe Hazard
4 Extreme Hazard

PERSONAL PROTECTION:

Full Face Respirator
Dust & Vapor Half Mask Respirator

OTHER STANDARD ABBREVIATIONS:
- ML: Maximum Limit
- mg/mL: milligrams per cubic meter
- NA: Not Available
- ND: Not Determined
- NE: Not Established
- NP: Not Found
- NR: No Results
- ppm: parts per million
- SCBA: Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:
- Autoignition Temperature
- Lower Explosive Limit: lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
- 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:
- Minimal Hazard
- Slight Hazard
- Moderate Hazard
- Severe Hazard
- Extreme Hazard

REGULATORY INFORMATION:

DOT: U.S. Department of Transportation
TC: Transport Canada
EPA: Environmental Protection Agency
DSD: Domestic Substance List
NONS: National Occupational Health and Safety Commission (Australia)
NDSD: Non-Domestic Substance List
FSL: Canadian Priority Substances List
TSCA: U.S. Toxic Substance Control Act
EU: European Union
WHMIS: Canadian Workplace Hazardous Materials Information System
NTP: National Toxicology Program
RETECS: Registry of Toxic Effects of Chemical Substances
BCF: Bioconcentration Factor
TDS: Median threshold limit

WORKPLACE MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

Class A
Class B
Class C
Class D
Class D1
Class D2
Class D3
Class E
Class F
Compressed
Flammable
Oxidizing
Toxic
Irritation
Infectious
Corrosive
Reactive

EC (67/548/EEC) INFORMATION:

- Corrosive
- Explosive
- Flammable
- Harmful
- Oxidizing
- Toxic
- Irritant
- Infectious
- Corrosive
- Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS: