1. Identification

Product identifier: MASTERDRAW® B985B

Other means of identification
- Product code: G-E-000826
- Recommended use: Industrial lubricant
- Recommended restrictions: Use only as directed.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer
- Company name: Etna Products, Inc.
- Address: 16824 Park Circle Drive, PO Box 23609, Chagrin Falls, Ohio 44023, United States
- Telephone: Etna Products (440) 543-9845
- Website: http://www.etna.com
- E-mail: mikebell@etna.com
- Contact person: Mike Bell
- Emergency phone number: CHEMTREC (800) 424-9300, CCN8045 (703) 527-3887

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards: Acute toxicity, oral Category 4

Environmental hazards: Not classified.

OSHA defined hazards: Not classified.

Label elements

- Signal word: Warning
- Hazard statement: Harmful if swallowed.

Precautionary statement
- Prevention: Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
- Response: If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
- Storage: Store away from incompatible materials.
- Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): Combustible.

Supplemental information: 99.6% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, 6-Di-tert-butyl-4-cresol</td>
<td></td>
<td>128-37-0</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>BENZOTRIAZOLE</td>
<td></td>
<td>95-14-7</td>
<td>&lt; 0.2</td>
</tr>
</tbody>
</table>

Other components below reportable levels 90 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.
4. First-aid measures

Inhalation
Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact
Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed
Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media
Foam. Dry chemicals. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
Combustible. No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling
Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Keep away from heat and sources of ignition. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, 6-Di-tert-butyl-4-cresol (CAS 128-37-0)</td>
<td>TWA</td>
<td>2 mg/m3</td>
<td>Inhalable fraction and vapor.</td>
</tr>
</tbody>
</table>

Material name: MASTERDRAW® B985B  
G-E-000826  Version #: 02  Revision date: 05-17-2016  Issue date: 06-03-2015
2, 6-Di-tert-butyl-4-cresol (CAS 128-37-0)  

**TWA**  

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, 6-Di-tert-butyl-4-cresol</td>
<td>TWA</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

**Biological limit values**  
No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**  
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**  
- **Eye/face protection**: Wear safety glasses with side shields (or goggles).
- **Skin protection**: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
- **Hand protection**: Wear suitable protective clothing.
- **Respiratory protection**: In case of insufficient ventilation, wear suitable respiratory equipment.
- **Thermal hazards**: Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**  
Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties**

- **Appearance**: Transparent Blue Liquid
  - **Physical state**: Liquid.
  - **Form**: Liquid.
  - **Color**: Not available.
- **Odor**: Petroleum Odor
- **Odor threshold**: Not available.
- **pH**: Not available.
- **pH concentration**: N/A
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: > 500 °F (> 260 °C)
- **Flash point**: > 300.0 °F (> 148.9 °C)
- **Evaporation rate**: > 1
- **Flammability (solid, gas)**: Not applicable.

**Upper/lower flammability or explosive limits**

- **Flammability limit - lower (%)**: Not available.
- **Flammability limit - lower (%) temperature**: Unknown
- **Flammability limit - upper (%)**: Not available.
- **Flammability limit - upper (%) temperature**: Unknown
- **Explosive limit - lower (%)**: Not available.
- **Explosive limit - upper (%)**: Not available.
- **Vapor pressure**: Unknown
- **Vapor density**: Unknown
- **Relative density**: Not available.
- **Solubility(ies)**
  - **Solubility (water)**: Nil
- **Partition coefficient (n-octanol/water)**: Not available.
Auto-ignition temperature  Unknown
Decomposition temperature  Not available.
Viscosity  Not available.
Other information
  Explosive properties  Not explosive.
  Kinematic viscosity  43 mm²/s
  Kinematic viscosity temperature  104 °F (40 °C)
  Oxidizing properties  Not oxidizing.
  Specific gravity  0.87

10. Stability and reactivity
Reactivity  The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability  Material is stable under normal conditions.
Possibility of hazardous reactions  No dangerous reaction known under conditions of normal use.
Conditions to avoid  Contact with incompatible materials.
Incompatible materials  Strong oxidizing agents.
Hazardous decomposition products  No hazardous decomposition products are known.

11. Toxicological information
Information on likely routes of exposure
  Inhalation  Prolonged inhalation may be harmful.
  Skin contact  No adverse effects due to skin contact are expected.
  Eye contact  Direct contact with eyes may cause temporary irritation.
  Ingestion  Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics  Direct contact with eyes may cause temporary irritation.
Information on toxicological effects
Acute toxicity  Harmful if swallowed.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTERDRAW® B985B</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1900 mg/l estimated</td>
</tr>
<tr>
<td><strong>Components</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td></td>
<td>Test Results</td>
</tr>
<tr>
<td>2, 6-Di-tert-butyl-4-cresol (CAS 128-37-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Guinea pig</td>
<td>10700 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Mouse</td>
<td>1040 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>890 mg/kg</td>
</tr>
<tr>
<td>BENZOTRIAZOLE (CAS 95-14-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1.9 mg/l</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>615 mg/kg</td>
</tr>
</tbody>
</table>
**Test Results**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>600 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

- **Skin corrosion/irritation**
  - Prolonged skin contact may cause temporary irritation.
- **Serious eye damage/eye irritation**
  - Direct contact with eyes may cause temporary irritation.

- **Respiratory or skin sensitization**
  - **Respiratory sensitization**
    - Not a respiratory sensitizer.
  - **Skin sensitization**
    - This product is not expected to cause skin sensitization.
- **Germ cell mutagenicity**
  - No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- **Carcinogenicity**
  - This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

- 2, 6-Di-tert-butyl-4-cresol (CAS 128-37-0)
  - Not classifiable as to carcinogenicity to humans.


- Not listed.

- **Reproductive toxicity**
  - This product is not expected to cause reproductive or developmental effects.

- **Specific target organ toxicity - single exposure**
  - Not classified.

- **Specific target organ toxicity - repeated exposure**
  - Not classified.

- **Aspiration hazard**
  - Not an aspiration hazard.

- **Chronic effects**
  - Prolonged inhalation may be harmful.

### 12. Ecological information

- **Ecotoxicity**
  - The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

- **Persistence and degradability**
  - No data is available on the degradability of this product.

- **Bioaccumulative potential**
  - **Partition coefficient n-octanol / water (log Kow)**
    - BENZOTRIAZOLE
      - 1.44
  - **Mobility in soil**
    - No data available.

- **Other adverse effects**
  - No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

- **Disposal instructions**
  - Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/ regional/national/international regulations.

- **Local disposal regulations**
  - Dispose in accordance with all applicable regulations.

- **Hazardous waste code**
  - The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

- **Waste from residues / unused products**
  - Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

- **Contaminated packaging**
  - Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

- **DOT**
  - Not regulated as dangerous goods.

### 15. Regulatory information

- **US federal regulations**
  - This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.
SARA 304 Emergency release notification
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
Superseded Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance
Not listed.
SARA 311/312 Hazardous chemical
Yes
SARA 313 (TRI reporting)
Not regulated.
Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated.
US state regulations
US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.
US. Massachusetts RTK - Substance List
2, 6-Di-tert-butyl-4-cresol (CAS 128-37-0)
BENZOTRIAZOLE (CAS 95-14-7)
US. New Jersey Worker and Community Right-to-Know Act
2, 6-Di-tert-butyl-4-cresol (CAS 128-37-0)
US. Pennsylvania Worker and Community Right-to-Know Law
2, 6-Di-tert-butyl-4-cresol (CAS 128-37-0)
US. Rhode Island RTK
Not regulated.
US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
International Inventories
<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no)*</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------------------------------------------------</td>
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</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>06-03-2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>05-17-2016</td>
</tr>
<tr>
<td>Version #</td>
<td>02</td>
</tr>
</tbody>
</table>

Disclaimer

The information contained herein is based on the data available to us and is believed to be correct. Etna Products Inc. does not warrant or guarantee their accuracy or reliability and Etna Products, Inc. shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user’s consideration and examination and it is the users responsibility to satisfy itself that they are suitable and complete for its particular use.

Revision Information

Exposure controls/personal protection: Eye/face protection
Physical & Chemical Properties: Multiple Properties
Regulatory information: US federal regulations
Other information, including date of preparation or last revision: Disclaimer
HazReg Data: North America