### 3. HAZARDOUS IDENTIFICATION

Chemical ingredients not regulated by OSHA, SDWA, State or Federal agencies are
Refer to section eight for exposure limits on ingredients

<table>
<thead>
<tr>
<th>Composition</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>The chemical or hazard is not regulated by OSHA, SDWA, State or Federal agencies.</td>
<td>Refer to section eight for exposure limits on ingredients.</td>
</tr>
</tbody>
</table>

#### 4. PRODUCT AND COMPANY IDENTIFICATION

**Cement**

Material Safety Data Sheet

**Metalcote**

10080 - CEMENT
**HAZARDOS COMBUSTION**

**CONSUMER EXPLOSION**

Products

Unusual free reaction

**EXTINGUISHING MEDIA**

Special free fire extinguishing media

Use: Acidic resistant foam. Carbon dioxide (CO2). Dry chemicals and phosphate type extinguishing materials. Water spray may be used to assist in fire extinguishing. Do not use water. See PPE.

**Flash Point (°C)**

-2°C (°F) (TC требования к безопасности)

---

**5. FIRE FIGHTING MEASURES**

Water: Do not give with anything to drink if the exposure is not immediate. Do NOT induce vomiting. Get medical attention immediately for large amounts of exposure. Keep exposer patient at rest. Do not give anything by mouth. Get medical attention. Expose the patient to大量 amounts of water to wash away chemical. Wash skin thoroughly with soap and water. Get medical attention. If eye contact occurs, wash with water for at least 15 minutes. Get medical attention if breathing is difficult. Remove victim immediately from source of exposure. When breathing is difficult.

**4. FIRST AID MEASURES**


**ROUTE OF ENTRY**

**HEALTH EFFECTS**

Acute toxicity

- If acute effects occur, seek medical attention immediately. Severe effects of exposure may result in death.
- If contact occurs with clothing, change clothes immediately. Remove all soiled clothing.
- If exposure occurs, seek medical attention immediately. Inhalation: Provide pure oxygen. Get medical attention immediately.
- For immediate effects, apply oxygen immediately. Do not allow exposure. The patient may seek medical attention immediately. Inhalation: Provide pure oxygen. Get medical attention immediately.

**TERATOGENICITY**

No known information.

**CARCINOGENICITY**

No known information.

**SENSITIZATION**

No known information.

**EMERGENCY OVERVIEW**

Highly flammable liquid, posing a fire hazard to eyes and skin. Harmful danger of serious damage.
6. Accidental Release Measures

**Precautionary Measures**
- **Of Fire**: Use a water spray to cool containers to prevent a fire from spreading.
- **Placing Hazardous Materials**: Keep out of the reach of children.
- **Personal Protection**
  - Use appropriate eye/face protection.
  - Use appropriate skin protection.
  - Use appropriate respiratory protection.

**Response**
- Spill cleanup procedures:
  - Keep product out of sewers and wastewater streams.
  - Avoid breathing the vapors. Wear a respiratory protection device if exposure exceeds the recommended guideline levels.
  - Remove sources of ignition. Keep source vented.

5. Handling and Storage

**Safe Storage**
- Store in a cool, dry, well-ventilated area.
- Keep away from heaters and open flames. Do not store in the same area as other flammable or combustible materials.

**Precautionary Measures**
- Avoid contact with eyes, skin, and clothing.
- Wear appropriate personal protective equipment.

4. Exposure Controls and Personal Protection

**Storage Criteria**
- Flammable: Liquid storage.
- Keep away from heat, sparks, and open flames. Store separated from acids, oxidizers.

**Storage Precautions**
- Keep in a cool, dry, well-ventilated area.
- Avoid contact with eyes, skin, and clothing.

**Handling Precautions**
- Avoid breathing the vapors.
- Use appropriate personal protective equipment.

3. Hazardous Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Chemical</th>
<th>CAS Number</th>
<th>TLV/TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>ACM</td>
<td>110-88-9</td>
<td>85 ppm</td>
<td>150 ppm</td>
</tr>
<tr>
<td>Acetone</td>
<td>ACM</td>
<td>67-64-1</td>
<td>60 ppm</td>
<td>150 ppm</td>
</tr>
<tr>
<td>Benzene</td>
<td>ACM</td>
<td>75-09-2</td>
<td>10 ppm</td>
<td>150 ppm</td>
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<tr>
<td>Hexane</td>
<td>ACM</td>
<td>110-54-3</td>
<td>1 ppm</td>
<td>5 ppm</td>
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</table>

**Notes**
- The data is incomplete and requires further analysis. Sections 2.9, 2.10, and 3.1.1 are not visible in the image.
HAZARDOUS POLYMORIZATION

CONDITIONS TO AVOID

STABILITY

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>PH-VALUE, CONC. SOLUTION</td>
<td>N/A</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>N/D</td>
</tr>
<tr>
<td>VAPOR DENSITY (g/L)</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>DENSITY</td>
<td>0.80</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Insoluble</td>
</tr>
<tr>
<td>DENSITY IN SOLVENT</td>
<td></td>
</tr>
<tr>
<td>COLOR</td>
<td>Green</td>
</tr>
<tr>
<td>APPEARANCE/ PHYSICAL STATE</td>
<td>Liquid</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

- Wash all of each work shift and before eating, smoking and using the toilet.
- Wear appropriate clothing to prevent repeated or prolonged skin contact.
- Wear splash-proof eye goggles to prevent any possibility of eye contact.
- Gloves made of neoprene, nitrile, polyvinyl chloride, or PVC. Chemical-resistant gloves required for prolonged or repeated contact. Use protective equipment specified in contamination axes.
- No specific respiratory recommendations made, but respiratory protection may still be required under all contamination exceeds acceptable level.
- No specific ventilation recommendations made, but local ventilation may still be required if exposure engineering controls to reduce or contamination to permissible exposure level.
- **ACGIH TLV: Not Classifiable as a Human Carcinogen.**

NCSH 2 mg/m³ (CPC)
MAGNESIUM OXIDE (MGO)

Component

CARCINOGENICITY

Toxic conc. LC 50
5000 mg/kg (oral rat)

Toxic dose LD 50
60

Toxicological Data

Toxic effects: WHMIS (Canada) R33

Reproductive effects: WHMIS (Canada) R80

BENZENE, METHYL- (COMMON NAME: TOLUENE)

Component

Acute Toxicity

Toxic conc. LC 50
2000 mg/l (oral rat)

Toxic dose LD 50
60

Toxicological Data

Toxic effects: WHMIS (Canada) R28

Reproductive effects: WHMIS (Canada) R51

ACETONE

Component

Teratogenicity

Toxic conc. LC 50
100 ppm

Toxic dose LD 50

Toxicological Data

Toxic effects: WHMIS (Canada) R28

Reproductive effects: WHMIS (Canada) R51

BUTANE, 2- (COMMON NAME: METHYL ETHYL KETONE)

Component

Reproductive Toxicity in European Union

Toxic conc. LC 50
4000 ppm (oral rat)

Toxic dose LD 50

Toxicological Data

Toxic effects: WHMIS (Canada) R28

Reproductive effects: WHMIS (Canada) R51

HEXANE

Component

Gases associated with hearing damage.

Reproductive and developmental toxicity in humans has been associated with impaired endocrine function and thyroid.

Reproductive and developmental toxicity in the embryo/exembryonic period include nausea, vomiting, stillbirth, and loss of pregnancy.

Reproductive and developmental toxicity in infants has been associated with perinatal

14. TOXICOLOGICAL INFORMATION

PRODUCTS

HAZARDOUS DECOMPOSITION

PROCEDURE FOR INCENSES

POLARIZATION DECOMPOSITION

10080 - CEMENT
4. TRANSPORT INFORMATION

DOT Hazard Class

Consumer Commodity

DOT Proper Shipping Name

Label for Transport

CMR D (Other Regulated Material)

14. TRANSPORT INFORMATION

DOT Hgible

Waste Classification

Disposal Methods

4.2. ECOLOGICAL INFORMATION

Carcinogenicity

Toxic Conc. - LC 50

Toxic Dose - LD 50

Chemical Toxicity, Oral, Mammals: cat, rat

Chemical Toxicity, Skin: guinea pig, rabbit

Talc (Mg3Si2O5(OH)4)

No data on possible environmental effects have been found.

No data on possible environmental effects have been found.

No data on possible environmental effects have been found.

No data on possible environmental effects have been found.

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No data on possible environmental effects have been found.

No data on possible environmental effects have been found.
**STATE REGULATORY STATUS**

<table>
<thead>
<tr>
<th>Component</th>
<th>California Proposition 65 Warning</th>
<th>ZINC OXIDE (ZnO)</th>
<th>BENZENE, METHYL - (COMMON NAME: Toluene)</th>
<th>ACETONE</th>
<th>BUTANONE 2 - (COMMON NAME: METHYL ETHYL KETONE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH</td>
<td>Yes</td>
<td>Yes</td>
<td>R</td>
<td>No</td>
<td>CA, MA, FL, MN, NJ, PA, RI</td>
</tr>
<tr>
<td>EH</td>
<td>Yes</td>
<td>Yes</td>
<td>R</td>
<td>No</td>
<td>CA, MA, FL, MN, NJ, PA, RI</td>
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<tr>
<td>EH</td>
<td>Yes</td>
<td>No</td>
<td>R</td>
<td>No</td>
<td>CA, MA, FL, MN, NJ, PA, RI</td>
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<tr>
<td>EH</td>
<td>Yes</td>
<td>Yes</td>
<td>R</td>
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<td>CA, MA, FL, MN, NJ, PA, RI</td>
</tr>
<tr>
<td>EH</td>
<td>Yes</td>
<td>Yes</td>
<td>R</td>
<td>No</td>
<td>CA, MA, FL, MN, NJ, PA, RI</td>
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<tr>
<td>EH</td>
<td>Yes</td>
<td>Yes</td>
<td>R</td>
<td>No</td>
<td>CA, MA, FL, MN, NJ, PA, RI</td>
</tr>
<tr>
<td>EH</td>
<td>Yes</td>
<td>Yes</td>
<td>R</td>
<td>No</td>
<td>CA, MA, FL, MN, NJ, PA, RI</td>
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<tr>
<td>EH</td>
<td>Yes</td>
<td>Yes</td>
<td>R</td>
<td>No</td>
<td>CA, MA, FL, MN, NJ, PA, RI</td>
</tr>
</tbody>
</table>

**SARA HAZARDOUS CATEGORIES**

- Acute Chronic Fire

**CLEAN AIR ACT**

Values in Section 313 column represent Category Codes for Reporting under Section 313.

- ZINC OXIDE (ZnO)
- BENZENE, METHYL - (COMMON NAME: Toluene)
- ACETONE
- BUTANONE 2 - (COMMON NAME: METHYL ETHYL KETONE)

**FEDERAL REGULATIONS**

- SARA 30C CERCLA SARA 313

---

**15. REGULATORY INFORMATION**

<table>
<thead>
<tr>
<th>Adhesives</th>
<th>Air Transport Notes</th>
<th>ICAO Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
HEALTH

16. OTHER INFORMATION

(1) Exempt from TSCA Inventory Requirements

CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

TSCA (TSCA)

USA (TSCA)

- 2,4-BIS[(1-DIETHYLMETHYL)PHENYL-METHYL]-HEXANE
- PHENOL
- BENZENE
- METHYL TOLUENETETRAETHYL
- ACETONE
- BUTANONE 2 (COMMON NAME: MEYTHYL ETHYL KETONE)
- TOLUENE: M.G.H. (ISO3)
- TAC (Mg2H2(SiO3)

COMPONENT

GLOBAL INVENTORIES

Inhalation:
R-40/72/02 Hazard of serious damage to health by prolonged exposure through
R-36/33 Irritating to eyes and skin.
R-22 Harmful if swallowed.
R-11 Flammable

Risk Phrases

CLASSIFICATION

Controllable Product

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMS

Zinc compounds regulated under CERCLA and SARA 313 Environmental Hazard.
Toxic Environmental Hazard. CAS # 108-88-3
2-Butanone (EU) Environmental Hazard. CAS# 79-29-3.
Number of they comprise 0.1% or more.

10800 - CEMENT
Information revised since previous MSDS Version.

Disclaimer

Date

Replacement of MSDS generated

Revision No.

Prepared By

Tariff Code

Revision Comments

INDEX

NPCA HNIS FLAMMABILITY

PHOSPHORUS

Personal Protection Index

NPCA HNIS HAZARD INDEX

Reactivity

Flammability

Flammable (3) - HNIS/IFPA

Nonflammable (0) - HNIS/IFPA

Moderately: Moderately Toxic - May be harmful if inhaled or absorbed (2).

G - Safety Eyewear, Gloves and Upper Respirator

Inflammable: Easily (3) - HNIS/IFPA

3.006.10.0000. 2.4dmL can

Percentage Composition


James P. McNamara

Man Maka