Material Safety Data Sheet - MSDS

Tile & Grout Magic

Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Material Uses</th>
<th>Validation Date</th>
<th>In Case of Emergency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tile &amp; Grout Magic</td>
<td>Not available.</td>
<td>2004-11-14.</td>
<td>CANUTEC (613) 996-6666</td>
</tr>
<tr>
<td>Part number</td>
<td>15200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manufactured for</td>
<td>LynCar Products Limited, 30 Hedgedale Road, Brampton, ONT L6T 5L2 Tel: (800) 263-7011 Fax: (800) 459-6227</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 2. Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>UN number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>10-13</td>
<td>UN1969</td>
</tr>
<tr>
<td>Tetrasodium EDTA</td>
<td>64-02-8</td>
<td>5-7</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Ethanol, 2-(2-Ethoxyethoxy)-</td>
<td>111-90-0</td>
<td>3-5</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>3-5</td>
<td>UN2811</td>
</tr>
<tr>
<td>Disodium metasilicate</td>
<td>6834-92-0</td>
<td>1-3</td>
<td>UN3253</td>
</tr>
</tbody>
</table>

This material is classified hazardous under the WHMIS Controlled Product Regulation in Canada.

Section 3. Hazards Identification

Physical State and Appearance: Liquid. (Clear.)

Emergency Overview: DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, LIVER, LYMPHATIC SYSTEM, RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA. MAY BE HARMFUL IF SWALLOWED. POSSIBLE CANCER HAZARD. MAY CAUSE CANCER BASED ON ANIMAL DATA.

Risk of cancer depends on duration and level of exposure. Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Do not ingest. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of Entry: Absorbed through skin. Eye contact. Ingestion.

Potential Acute Health Effects:

- **Eyes**: Hazardous in case of eye contact (irritant).
- **Skin**: Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin.
- **Inhalation**: Slightly hazardous in case of inhalation.
- **Ingestion**: Slightly hazardous in case of ingestion.

Potential Chronic Health Effects:

- **CARCINOGENIC EFFECTS**: Classified None. by NIOSH [Isobutane]. Classified A3 (Proven for animal.) by ACGIH [2-Butoxyethanol].
- **MUTAGENIC EFFECTS**: Not available.
- **TERATOGENIC EFFECTS**: Not available.

Medical Conditions Aggravated by Overexposure: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Over-exposure signs/symptoms: Not available.

See Section 11 for more detailed information on health effects and symptoms.

Continued on Next Page
Section 4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Get medical attention immediately.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Notes to Physician: No specific antidote. Medical staff must contact Poison Information Center.

Section 5. Fire Fighting Measures

Flammability of the Product: Flammable.
Auto-ignition Temperature: The lowest known value is 204.49°C (400.1°F) (Ethanol, 2-(2-Ethoxyethoxy)-).
Flash Points: Closed cup: <-28.89°C (-20°F). (Tagliabue.)
Flammable Limits: Not available.
Products of Combustion: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂). Some metallic oxides.
Fire Hazards in Presence of Various Substances: Flammable in presence of open flames, sparks and static discharge.
Fire Fighting Media and Instructions: SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Protective Clothing (Fire): Be sure to use an approved/certified respirator or equivalent.

Section 6. Accidental Release Measures

Small Spill and Leak: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.
Large Spill and Leak: Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid.

Section 7. Handling and Storage

Handling: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Store between 0 to 48.89°C (32 to 120°F).

Section 8. Exposure Controls, Personal Protection

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Eyes: Splash goggles. Body: Lab coat. Respiratory: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Continued on Next Page
Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits:
2-Butoxyethanol
ACGIH TLV (Canada, 2003):
TWA: 20 ppm 8 hour(s). Form: All forms

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

**Physical State and Appearance**
- Liquid. (Clear.)

**Color**
- Colorless.

**Odor**
- Herbal/Floral.

**Molecular Weight**
- Not applicable.

**Molecular Formula**
- Not applicable.

**pH (1% Soln/Water)**
- 11.5 to 12.5 [Basic.]

**Boiling/Condensation Point**
- Weighted average: 185.95°C (366.7°F)

**Melting/Freezing Point**
- Weighted average: -2.64°C (27.2°F)

**Specific Gravity**
- 0.95 to 1.05 (Water = 1)

**Vapor Pressure**
- Not available.

**Vapor Density**
- Weighted average: 4.38 (Air = 1)

**Volatile**
- Not available.

**Odor Threshold**
- Not available.

**Evaporation Rate**
- <1

**VOC**
- Not available.

**Viscosity**
- Not available.

**LogKow**
- Not available.

**Solubility**
- Easily soluble in cold water, hot water.

### Section 10. Stability and Reactivity

**Stability and Reactivity**
- The product is stable.

**Conditions of Instability**
- Not available.

**Incompatibility with Various Substances**
- Reactive with oxidizing agents.
- Slightly reactive with acids, alkalis.

**Hazardous Decomposition Products**
- Not available.

**Hazardous Polymerization**
- Will not occur.

### Section 11. Toxicological Information

**Toxicity Data**

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Test</th>
<th>Result</th>
<th>Route</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>LC50</td>
<td>570000 ppm (4 hour(s))</td>
<td>Inhalation</td>
<td>Rat</td>
</tr>
<tr>
<td>Ethanol, 2-(2-Ethoxyethoxy)-2-Butoxyethanol</td>
<td>LD50</td>
<td>3620 mg/kg</td>
<td>Oral</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>470 mg/kg</td>
<td>Oral</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>300 mg/kg</td>
<td>Oral</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>1200 mg/kg</td>
<td>Oral</td>
<td>Guinea pig</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>220 mg/kg</td>
<td>Dermal</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>450 ppm (4 hour(s))</td>
<td>Inhalation</td>
<td>Rat</td>
</tr>
<tr>
<td>Disodium metasilicate</td>
<td>LD50</td>
<td>1153 mg/kg</td>
<td>Oral</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>770 mg/kg</td>
<td>Oral</td>
<td>Mouse</td>
</tr>
</tbody>
</table>

**Continued on Next Page**
**Section 12. Ecological Information**

### Ecotoxicity Data

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Species</th>
<th>Period</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrasodium EDTA</td>
<td>Lepomis macrochirus (LC50)</td>
<td>96 hour(s)</td>
<td>486 mg/l</td>
</tr>
<tr>
<td></td>
<td>Lepomis macrochirus (LC50)</td>
<td>96 hour(s)</td>
<td>1030 mg/l</td>
</tr>
<tr>
<td></td>
<td>Lepomis macrochirus (LC50)</td>
<td>96 hour(s)</td>
<td>2070 mg/l</td>
</tr>
<tr>
<td>Ethanol, 2-(2-Ethoxyethoxy)-</td>
<td>Lepomis macrochirus (LC50)</td>
<td>96 hour(s)</td>
<td>3092 mg/l</td>
</tr>
<tr>
<td></td>
<td>Pimephales promelas (LC50)</td>
<td>96 hour(s)</td>
<td>9650 mg/l</td>
</tr>
<tr>
<td></td>
<td>Lepomis macrochirus (LC50)</td>
<td>96 hour(s)</td>
<td>&gt;10000 mg/l</td>
</tr>
<tr>
<td></td>
<td>Oncorhynchus mykiss (LC50)</td>
<td>96 hour(s)</td>
<td>13400 mg/l</td>
</tr>
<tr>
<td></td>
<td>Pimephales promelas (LC50)</td>
<td>96 hour(s)</td>
<td>13900 mg/l</td>
</tr>
<tr>
<td></td>
<td>Lepomis macrochirus (LC50)</td>
<td>96 hour(s)</td>
<td>21400 mg/l</td>
</tr>
<tr>
<td></td>
<td>Pimephales promelas (LC50)</td>
<td>96 hour(s)</td>
<td>26500 mg/l</td>
</tr>
<tr>
<td></td>
<td>Lepomis macrochirus (LC50)</td>
<td>96 hour(s)</td>
<td>1490 mg/l</td>
</tr>
</tbody>
</table>

**BOD and COD** : Not available.

**Biodegradable/OECD** : Not available.

**Mobility** : Not available.

**Products of Degradation** : These products are carbon oxides (CO, CO$_2$) and water, nitrogen oxides (NO, NO$_2$). Some metallic oxides.

**Toxicity of the Products of Biodegradation** : The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation** : Not available.

### Section 13. Disposal Considerations

**Waste Information** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Consult your local or regional authorities.**

### Section 14. Transport Information

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing Group</th>
<th>Label</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada (TDG)</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Remarks Consumer Product.</td>
<td></td>
</tr>
<tr>
<td>IMDG Code</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Remarks Consumer Product.</td>
<td></td>
</tr>
<tr>
<td>IATA-DGR Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Remarks Consumer Product.</td>
<td></td>
</tr>
</tbody>
</table>

**NAERG** : Not applicable.
Section 15. Regulatory Information

WHMIS (Canada)

CEPA DSL: All components listed.
WHMIS (Canada)

D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
D-2B: Material causing other toxic effects (TOXIC).
E: Corrosive liquid.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire Hazard</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

National Fire Protection Association (U.S.A.)

Health 1
Reactivity 2
Specific Hazard 0
Fire Hazard 1

References

- Manufacturer's Material Safety Data Sheet.

Other Special Considerations

Not available.

Responsible Name

Kemika XXI Inc. +1-450-435-7475

Date of issue


Date of Previous Issue

No Previous Validation.

Version

1

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.