SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Trade name: OMEGALAQ™ Liquid Temperature Lacquers 950 °F (510 °C) Green, 1000 °F (538 °C) Pink Brown

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Temperature indicator

1.3. Details of the supplier of the safety data sheet
OMEGA Engineering, INC.
800 Connecticut Ave, Suite 5N01
Norwalk, CT 06854 USA
(800)-848-4286 or (203)-359-1660
Fax: (203)-359-7700
info@omega.com

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification in accordance with the Globally Harmonized Standard
Skin Irrit. 2 H315
Eye Irrit. 2A H319
Skin Sens. 1 H317
Mut. 1B H340
Carc. 1B H350
Repr. 1B H360
STOT SE 3 H335
STOT SE 3 H336
STOT RE 2 H373
Aquatic Chronic 3 H412
Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US): 

Signal word (GHS-US): Danger
Hazard statements (GHS-US):
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H340 - May cause genetic defects
- H350 - May cause cancer
- H360 - May damage fertility or the unborn child
- H373 - May cause damage to organs through prolonged or repeated exposure
- H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US):
- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P260 - Do not breathe mist, spray, vapours
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2.3. Other hazards

2.4. Unknown acute toxicity (GHS-US)
0.5 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
0.5 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-bromopropane</td>
<td>(CAS No) 106-94-5</td>
<td>71.44 - 73.65 all</td>
<td>Flam. Liq. 2, H225 Eye Irr. 2, H319 Repr. 1B, H360 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373</td>
</tr>
<tr>
<td>Molybdenum trioxide</td>
<td>(CAS No) 1313-27-5</td>
<td>16.93 in 950 °F 4.57 in 1000 °F</td>
<td>Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335</td>
</tr>
<tr>
<td>Potassium chromate</td>
<td>(CAS No) 7789-00-6</td>
<td>0.54 - 0.61 in 950 °F 0.67 - 0.74 in 1000 °F</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Mut. 1B, H340 Carc. 1B, H350 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td>Toluene</td>
<td>(CAS No) 108-88-3</td>
<td>0.61 - 0.64 all</td>
<td>Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-epoxybutane</td>
<td>(CAS No) 106-88-7</td>
<td>&lt; 0.52 all</td>
<td>Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16
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SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Drink plenty of water. Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries : May damage fertility or the unborn child. Causes damage to organs. Suspected of causing cancer. May cause genetic defects.
Symptoms/injuries after inhalation : May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact : Causes serious eye irritation.
Symptoms/injuries after ingestion : May cause irritation of the mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed
All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard : Burning produces irritating, toxic and noxious fumes.
Explosion hazard : Product is not explosive.
Reactivity : No dangerous reactions known.

5.3. Advice for firefighters
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel
Protective equipment : Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment : Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions
Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up
For containment : Absorb and/or contain spill with inert material, then place in suitable container. Do not allow minor leaks or spills to accumulate on walking surfaces.
6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid breathing mist, spray, vapours. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Use only outdoors or in a well-ventilated area.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Keep only in the original container in a cool well-ventilated place.

Incompatible products: Strong acids. Strong bases.

Incompatible materials: Heat sources. Direct sunlight.

Prohibitions on mixed storage: Incompatible materials.

7.3. Specific end use(s)

Temperature indicator.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>OMEGALAQ™ Liquid Temperature Lacquers 950 °F (510 °C) Green, 1000 °F (538 °C) Pink Brown</th>
<th>ACGIH</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

1,2-epoxybutane (106-88-7)

| ACGIH | ACGIH TWA (ppm) | 10 ppm |
| OSHA | Not applicable |

1-bromopropane (106-94-5)

| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | Remark (ACGIH) | Liver & embryo/fetal dam; A3 |
| OSHA | Not applicable |

Toluene (108-88-3)

| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | Remark (ACGIH) | Visual impair; female repro; |
| OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| OSHA | OSHA PEL (Ceiling) (ppm) | 300 ppm |
| OSHA | Remark (OSHA) | (2) See Table Z-2. |

Canada (Quebec)

| VECD (mg/m³) | 565 mg/m³ |
| VECD (ppm) | 150 ppm |
| VEMP (mg/m³) | 377 mg/m³ |
| VEMP (ppm) | 100 ppm |

potassium chromate (7789-00-6)

| ACGIH | Not applicable |
| OSHA | Not applicable |

Molybdenum trioxide (1313-27-5)

| ACGIH | Not applicable |
| OSHA | Not applicable |
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8.2. Exposure controls

Appropriate engineering controls: Avoid creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation is usually required.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Use rubber gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing. Long sleeved protective clothing.

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.

Other information: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Green, pink, brown.

Odour: Solvent.

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butyl acetate=1): No data available

Melting point: 510 - 538 °C

Freezing point: No data available

Boiling point: No data available

Flash point: > 96 °C

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapour pressure: No data available

Relative vapour density at 20 °C: No data available

Relative density: No data available

Solubility: No data available

Log Pow: No data available

Log Kow: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidising properties: No data available

Explosive limits: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Heat.

10.5. Incompatible materials

Strong bases. Strong acids.

10.6. Hazardous decomposition products

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>LD50 oral rat</td>
<td>1100 µl/kg</td>
</tr>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>ATE CLP (oral)</td>
<td>500.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>ATE CLP (dermal)</td>
<td>1100.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>ATE CLP (gases)</td>
<td>4500.000 ppmv/4h</td>
</tr>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>ATE CLP (vapours)</td>
<td>11.000 mg/l/4h</td>
</tr>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>ATE CLP (dust,mist)</td>
<td>1.500 mg/l/4h</td>
</tr>
<tr>
<td>1-bromopropane (106-94-5)</td>
<td>LD50 oral rat</td>
<td>&gt; 2000</td>
</tr>
<tr>
<td>1-bromopropane (106-94-5)</td>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>1-bromopropane (106-94-5)</td>
<td>LC50 inhalation rat (ppm)</td>
<td>14374 ppm/4h</td>
</tr>
<tr>
<td>1-bromopropane (106-94-5)</td>
<td>ATE CLP (gases)</td>
<td>14374.000 ppmv/4h</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>LD50 oral rat</td>
<td>5580 mg/kg EU Method B.1 (Acute Toxicity (Oral))</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 20 mg/l/4h OECD Guideline 403 (Acute Inhalation Toxicity)</td>
</tr>
<tr>
<td>potassium chromate (7789-00-6)</td>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg Read across category approach</td>
</tr>
<tr>
<td>potassium chromate (7789-00-6)</td>
<td>LC50 inhalation rat (mg/l)</td>
<td>99 mg/m³ 4 h, read across category approach</td>
</tr>
<tr>
<td>Molybdenum trioxide (1313-27-5)</td>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Molybdenum trioxide (1313-27-5)</td>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg bodyweight</td>
</tr>
<tr>
<td>Molybdenum trioxide (1313-27-5)</td>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 3.92 mg/l/4h</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**

- Causes skin irritation.

**Serious eye damage/irritation**

- Causes serious eye irritation.

**Respiratory or skin sensitisation**

- May cause an allergic skin reaction.

**Germ cell mutagenicity**

- May cause genetic defects.

**Carcinogenicity**

- May cause cancer.

**1,2-epoxybutane (106-88-7)**

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>2B - Possibly carcinogenic to humans</td>
<td></td>
</tr>
</tbody>
</table>

**Toluene (108-88-3)**

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not classifiable</td>
<td></td>
</tr>
</tbody>
</table>

**Reproductive toxicology**

- May damage fertility or the unborn child.

**Specific target organ toxicity (single exposure)**

- May cause respiratory irritation. May cause drowsiness or dizziness.

**Specific target organ toxicity (repeated exposure)**

- May cause damage to organs through prolonged or repeated exposure.

**1-bromopropane (106-94-5)**

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOAEL (inhalation, rat, dust/mist/fume, 90 days)</td>
<td>1 mg/l/6h/day</td>
<td></td>
</tr>
</tbody>
</table>

**Toluene (108-88-3)**

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (inhalation, rat, gas, 90 days)</td>
<td>1250 ppmv/6h/day</td>
<td></td>
</tr>
<tr>
<td>NOAEL (oral, rat, 90 days)</td>
<td>625 mg/kg bodyweight/day EU Method B.26. Increased relative weights of liver and kidney are interpreted as toxicologically insignificant differences in the absence of histological findings.</td>
<td></td>
</tr>
<tr>
<td>NOAEL (inhalation, rat, gas, 90 days)</td>
<td>300 ppmv/6h/day OECD Guideline 453</td>
<td></td>
</tr>
</tbody>
</table>

**Aspiration hazard**

- Not classified

**Potential adverse human health effects and symptoms**

**Symptoms/injuries after inhalation**

- May cause respiratory irritation. May cause drowsiness or dizziness.
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| Symptoms/injuries after skin contact | : | Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/injuries after eye contact | : | Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : | May cause irritation of the mucous membranes. |
| Likely routes of exposure | : | Skin and eye contact; Inhalation |

**SECTION 12: Ecological information**

12.1 Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

1,2-epoxybutane (106-88-7)

| LC50 fish 1 | > 100 mg/l 96 h |
| EC50 Daphnia 1 | 70 mg/l 48 h |
| ErC50 (algae) | > 500 mg/l 72 h |

1-bromopropane (106-94-5)

| EC50 Daphnia 1 | 203 mg/l 24 h |
| ErC50 (algae) | 52.4 mg/l |

Toluene (108-88-3)

| LC50 fish 1 | 5.5 mg/l |
| EC50 Daphnia 2 | 3.78 mg/l |
| ErC50 (algae) | 134 mg/l |
| LOEC (chronic) | 2.77 mg/l |
| NOEC chronic fish | 1.39 mg/l |
| NOEC chronic crustacea | 0.74 mg/l |

potassium chromate (7789-00-6)

| LC50 fish 1 | >= 43.3 (≤ 58) mg/l Brachydanio rerio, read across category approach |
| EC50 Daphnia 1 | 0.035 mg/l Read across category approach |

Molybdenum trioxide (1313-27-5)

| LC50 fish 1 | >= 43.3 (≤ 58) mg/l |
| NOEC (chronic) | > 87.8 mg/l |

12.2 Persistence and degradability

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Persistence and degradability : May cause long-term adverse effects in the environment.

1,2-epoxybutane (106-88-7)

Persistence and degradability : Readily biodegradable.

1-bromopropane (106-94-5)

Persistence and degradability : Readily biodegradable.

Toluene (108-88-3)

Persistence and degradability : Readily biodegradable.

12.3 Bioaccumulative potential

1,2-epoxybutane (106-88-7)

Log Pow | 0.86 |

1-bromopropane (106-94-5)

BCF fish 1 | 11.29 L/kg wwt |
| Log Pow | 2.16 |

Toluene (108-88-3)

| Bioconcentration factor (BCF REACH) | 90 |
| Log Kow | 2.73 |

12.4 Mobility in soil

No additional information available

12.5 Other adverse effects

No additional information available
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SECTION 13: Disposal considerations

13.1 Waste treatment methods
Waste treatment methods : Do not dispose in household garbage.
Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT and TDG
Not considered a dangerous good for transport regulations
Proper Shipping Name (ADR) : Not applicable

Transport by sea
No additional information available
Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Compound</th>
<th>TSCA Inventory</th>
<th>SARA Section</th>
<th>RQ (Reportable quantity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>313</td>
<td>100 lb</td>
</tr>
<tr>
<td>1-bromopropane (n-propyl bromide) (106-94-5)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>313</td>
<td>1000 lb</td>
</tr>
<tr>
<td>Potassium chromate (7789-00-6)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>313</td>
<td></td>
</tr>
</tbody>
</table>

EPA TSCA Regulatory Flag : R - R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

Molybdenum trioxide (1313-27-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.

15.2. International regulations

CANADA

1,2-epoxybutane (106-88-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

1-bromopropane (n-propyl bromide) (106-94-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Toluene (108-88-3)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Potassium chromate (7789-00-6)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Molybdenum trioxide (1313-27-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

1,2-epoxybutane (106-88-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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1. Bromopropane (n-propyl bromide) (106-94-5)
   Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2. Toluene (108-88-3)
   Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

3. Potassium chromate (7789-00-6)
   Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

4. Molybdenum trioxide (1313-27-5)
   Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations
OMEGAŁAQ™ Liquid Temperature Lacquers 950 °F (510 °C) Green, 1000 °F (538 °C) Pink Brown
All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).
All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
All ingredients are listed in the Toxic Substances Control Act (TSCA).

15.3. US State regulations

1-bromopropane (n-propyl bromide) (106-94-5)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>U.S. - California - Prop 65 - Carcinogens List</th>
<th>U.S. - California - Prop 65 - Developmental Toxicity</th>
<th>U.S. - California - Prop 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Prop 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-bromopropane (n-propyl bromide) (106-94-5)</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No significance risk level (NSRL)</td>
</tr>
</tbody>
</table>

Toluene (108-88-3)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>U.S. - California - Prop 65 - Carcinogens List</th>
<th>U.S. - California - Prop 65 - Developmental Toxicity</th>
<th>U.S. - California - Prop 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Prop 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No significance risk level (NSRL)</td>
</tr>
</tbody>
</table>

1,2-epoxybutane (106-88-7)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>U.S. - Massachusetts - RTK (Right to Know) List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>U.S. - Massachusetts - Right To Know List</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

Potassium chromate (7789-00-6)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chromate (7789-00-6)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
<td>U.S. - New York - Right to Know List of Hazardous Chemicals</td>
<td>U.S. - Pennsylvania - List of Hazardous Substances</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Indication of changes : Original document.
OMEGALAQ™ Liquid Temperature Lacquers 950 °F (510 °C) Green, 1000 °F (538 °C) Pink Brown

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Canadian Hazardous Products Regulations (HPR)

Data sources
  
  Canadian Centre for Occupational Health and Safety. Accessed at:

  ESIS (European chemical Substances Information System; accessed at:

  European Chemicals Agency (ECHA) Registered Substances list. Accessed at

  edition.


  COUNCIL of 16 December 2008 on classification, labelling and packaging of substances
  and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

  TSCA Chemical Substance Inventory. Accessed at

Abbreviations and acronyms
: ACGIH (American Conference of Government Industrial Hygienists).

  ATE: Acute Toxicity Estimate.

  CAS (Chemical Abstracts Service) number.

  CLP: Classification, Labelling, Packaging.

  EC50: Environmental Concentration associated with a response by 50% of the test population.

  GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

  LD50: Lethal Dose for 50% of the test population.

  OSHA: Occupational Safety & Health Administration.

  PBT: Persistent, Bioaccumulative, Toxic.

  STEL: Short Term Exposure Limits.

  TSCA: Toxic Substances Control Act.

  TWA: Time Weight Average.

Other information
: None.

NFPA health hazard
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard
: 1 - Must be preheated before ignition can occur.

NFPA reactivity
: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Dermal)</th>
<th>Acute toxicity (dermal), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Inhalation)</td>
<td>Acute toxicity (inhal.), Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 3</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard, Category 1</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity, Category 1B</td>
</tr>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity, Category 2</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>Muta. 1B</td>
<td>Germ cell mutagenicity, Category 1B</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>Reproductive toxicity, Category 1B</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>Reproductive toxicity, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, category 1</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Narcosis</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
</tbody>
</table>
OMEGALAQ™ Liquid Temperature Lacquers 950 °F (510 °C) Green, 1000 °F (538 °C) Pink Brown

Safety Data Sheet
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according to Canadian Hazardous Products Regulations (HPR)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H340</td>
<td>May cause genetic defects</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

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T 614-923-7472
www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.