**OMEGALAQ™ Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)
Date of issue: 03/17/2015, Revision date: 08/14/2018
Version: 2.0

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

1.1. **Product identifier**
- **Product form**: Mixture
- **Trade name**: OMEGALAQ™ Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)

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**

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**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
- **Carc. 2**: H351
- **Repr. 1B**: H360
- **STOT SE 3**: H335
- **STOT SE 3**: H336
- **STOT RE 2**: H373

Full text of classification categories and H statements : see section 16

2.2. **Label elements**

**GHS-US labelling**

- **Hazard pictograms (GHS-US)**: ![GHS07](image) ![GHS08](image)

- **Signal word (GHS-US)**: Danger
- **Hazard statements (GHS-US)**: H315 - Causes skin irritation
- **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
- **P261** - Avoid breathing dust/fume/gas/mist/vapours/spray
- **P264** - Wash hands thoroughly after handling
- **P271** - Use only outdoors or in a well-ventilated area
- **P280** - Wear eye protection, protective clothing, protective gloves
- **P302+P352** - If on skin: Wash with plenty of water
- **P304+P340** - If inhaled: Remove person to fresh air and keep comfortable for breathing
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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a doctor if you feel unwell
P314 - Call a doctor if you feel unwell
P312 - Call a doctor if you feel unwell
P337+P313 - If skin irritation occurs: Get medical advice/attention
P338+P313 - If skin irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

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

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>
Skin Irrit. 2, H315  
Eye Irrit. 2A, H319  
Repr. 1B, H360  
STOT SE 3, H336  
STOT SE 3, H335  
STOT RE 2, H373 |
| N,N'-Di-2-Naphthyl-P-Phenylenediamine              | (CAS No) 93-46-9   | 20.84 – 21.05 : 425 °F | Skin Irrit. 2, H315  
Eye Irrit. 2A, H319 |
| 1,1,1 Tris Ethane                                  | (CAS No) 27955-94-8| 3.68 – 3.72 : 425 °F | Aquatic Chronic 2, H411 |
| Toluene                                            | (CAS No) 108-88-3  | 1.8 – 1.88 : 225 °F | Flam. Liqu. 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 |
| methyl violet, Basic Violet 1, C.I. 42535          | (CAS No) 8004-87-3  | 0.21 : 225 °F 0.62 : 425 °F | Acute Tox. 3 (Oral), H301  
Eye Dam. 1, H318  
Aquatic Acute 1, H400  
Aquatic Chronic 1, H410 |
| 1,2-epoxybutane                                    | (CAS No) 106-88-7  | 0.39 : 225 °F 0.51 : 425 °F | Flam. Liqu. 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  
Can. 2, H351  
STOT SE 3, H335  
Aquatic Chronic 3, H412 |

Full text of H-statements: see section 16

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.
First-aid measures after skin contact: Wash with plenty of soap and water. If skin irritation 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.
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4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries: May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Suspected of causing cancer.
Symptoms/injuries after inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact: Causes skin irritation.
Symptoms/injuries after eye contact: Causes serious eye irritation.

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.

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.
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

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. 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.
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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>Component</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl violet, Basic Violet 1, C.I. 42535 (8004-87-3)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>1-bromopropane (106-94-5)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>1,1,1 Tris Ethane (27955-94-8)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>N,N'-Di-2-Naphthyl-P-Phenylenediamine (93-46-9)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACGIH TWA (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td></td>
<td>Remark (ACGIH)</td>
<td>Liver &amp; embryo/fetal dam; A3</td>
</tr>
<tr>
<td></td>
<td>OSHA TWA (ppm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remark (OSHA)</td>
<td>(2) See Table Z-2.</td>
</tr>
<tr>
<td></td>
<td>Canada (Quebec) VECD (mg/m³)</td>
<td>565 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Canada (Quebec) VECD (ppm)</td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td>Canada (Quebec) VEMP (mg/m³)</td>
<td>377 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Canada (Quebec) VEMP (ppm)</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

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.
Thermal hazard protection: Wear fire/flame resistant/retardant clothing.
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Consumer exposure controls : Avoid contact during pregnancy/while nursing.
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
Appearance : Opaque liquid.
Colour : violet.
Odour : mild.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : 70 °C
Flash point : > 96.1 °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
VOC content : 73.1 %

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified
methyI violet, Basic Violet 1, C.I. 42535 (8004-87-3)
LD50 oral rat 244 mg/kg
ATE CLP (oral) 244.000 mg/kg bodyweight
**OMEGALAQ™ Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)**

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<table>
<thead>
<tr>
<th>1,2-epoxybutane (106-88-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1100 µl/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>500.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (dermal)</td>
<td>1100.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (gases)</td>
<td>4500.000 ppmv/4h</td>
</tr>
<tr>
<td>ATE CLP (vapours)</td>
<td>11.000 mg/l/4h</td>
</tr>
<tr>
<td>ATE CLP (dust,mist)</td>
<td>1.500 mg/l/4h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1-bromopropane (106-94-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>14374 ppm/4h</td>
</tr>
<tr>
<td>ATE CLP (gases)</td>
<td>14374.000 ppmv/4h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1,1,1 Tris Ethane (27955-94-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg bodyweight</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N,N'-Di-2-Naphthyl-P-Phenylenediamine (93-46-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>4500 mg/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>4500.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toluene (108-88-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5580 mg/kg EU Method B.1 (Acute Toxicity (Oral))</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 20 mg/l/4h OECD Guideline 403 (Acute Inhalation Toxicity)</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>5580.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Causes skin irritation.

**Serious eye damage/irritation**: Causes serious eye irritation.

**Respiratory or skin sensitisation**: Not classified

**Germ cell mutagenicity**: Not classified

**Carcinogenicity**: Suspected of causing cancer.

<table>
<thead>
<tr>
<th>1,2-epoxybutane (106-88-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>2B - Possibly carcinogenic to humans</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toluene (108-88-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not classifiable</td>
</tr>
</tbody>
</table>

**Reproductive toxicity**: 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.

<table>
<thead>
<tr>
<th>1-bromopropane (106-94-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOAEL (inhalation, rat, dust/mist/fume, 90 days)</td>
<td>1 mg/l/6h/day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toluene (108-88-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (inhalation, rat, gas, 90 days)</td>
<td>1250 ppmv/6h/day</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>
</tr>
<tr>
<td>NOAEL (inhalation, rat, gas, 90 days)</td>
<td>300 ppmv/6h/day OECD Guideline 453</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.

**Symptoms/injuries after skin contact**: Causes skin irritation.

**Symptoms/injuries after eye contact**: Causes serious eye irritation.

**Likely routes of exposure**: Skin and eye contact; Inhalation

**SECTION 12: Ecological information**

12.1 **Toxicity**
OMEGALAQ™ Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)

Safety Data Sheet

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 100 mg/l 96 h</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>70 mg/l 48 h</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>&gt; 500 mg/l 72 h</td>
</tr>
<tr>
<td>1-bromopropane (106-94-5)</td>
<td></td>
</tr>
<tr>
<td>LC50 Daphnia 1</td>
<td>203 mg/l 24 h</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>52.4 mg/l</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>5.5 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>3.78 mg/l</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>134 mg/l</td>
</tr>
<tr>
<td>LOEC (chronic)</td>
<td>2.77 mg/l</td>
</tr>
<tr>
<td>NOEC chronic fish</td>
<td>1.39 mg/l</td>
</tr>
<tr>
<td>NOEC chronic crustacea</td>
<td>0.74 mg/l</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

OMEGALAQ™ Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)
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.

1,1,1 Tris Ethane (27955-94-8)
Persistence and degradability: Not readily biodegradable.
Biodegradation: 8 %

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

1,1,1 Tris Ethane (27955-94-8)
Log Kow: 3.88

N,N'-Di-2-Naphthyl-P-Phenylenediamine (93-46-9)
Log Pow: 6.39

Toluene (108-88-3)
Bioccentration 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

SECTION 13: Disposal considerations

13.1 Waste treatment methods
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
SECTION 15: Regulatory information

15.1. US Federal regulations

methyl violet, Basic Violet 1, C.I. 42535 (8004-87-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

1,2-epoxybutane (106-88-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
RQ (Reportable quantity, section 304 of EPA's List of Lists) 100 lb

1-bromopropane (n-propyl bromide) (106-94-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

1,1,1 Tris Ethane (27955-94-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
EPA TSCA Regulatory Flag P - P - indicates a commenced PMN substance.

N,N'-Di-2-Naphthyl-P-Phenylenediamine (93-46-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Toluene (108-88-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
RQ (Reportable quantity, section 304 of EPA's List of Lists) 1000 lb

15.2. International regulations

CANADA

methyl violet, Basic Violet 1, C.I. 42535 (8004-87-3)
Listed on the Canadian DSL (Domestic Substances List) inventory.

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.

1,1,1 Tris Ethane (27955-94-8)
Listed on the Canadian NDLS (Non-Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

N,N'-Di-2-Naphthyl-P-Phenylenediamine (93-46-9)
Listed on the Canadian DSL (Domestic Substances List) inventory.

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

EU-Regulations

methyl violet, Basic Violet 1, C.I. 42535 (8004-87-3)
Listed on ELINCS (European List of Notified Chemical Substances)

1,2-epoxybutane (106-88-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1-bromopropane (n-propyl bromide) (106-94-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1,1,1 Tris Ethane (27955-94-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
**OMEGALAQ™ Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)**

**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)

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**N,N’-Di-2-Naphthyl-P-Phenylenediamine (93-46-9)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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**National regulations**

OMEGALAQ™ Liquid Temperature Lacquers 425 °F (218 °C), 225 °F (107 °C)

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

<table>
<thead>
<tr>
<th>1-bromopropane (n-propyl bromide) (106-94-5)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Carcinogens List</td>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
</tr>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Toluene (108-88-3)</td>
<td></td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Carcinogens List</td>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
</tr>
<tr>
<td>No</td>
<td>Yes</td>
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</table>

<table>
<thead>
<tr>
<th>1,2-epoxybutane (106-88-7)</th>
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</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts - Right To Know List</td>
<td></td>
</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
<td></td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluen (108-88-3)</td>
<td></td>
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<tr>
<td>U.S. - Massachusetts - Right To Know List</td>
<td></td>
</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
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</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
<td></td>
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### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Indication of changes</th>
<th>Added. Product.</th>
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</thead>
<tbody>
<tr>
<td>Data sources</td>
<td>ACGIH 2000.</td>
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</table>


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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-statements:

<table>
<thead>
<tr>
<th>H-Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 4 (Dermal)</td>
<td>Acute toxicity (dermal), Category 4</td>
</tr>
<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 2</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</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. 2</td>
<td>Carcinogenicity, Category 2</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</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>Repr. 1B</td>
<td>Reproductive toxicity, Category 1B</td>
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<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>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>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<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>H318</td>
<td>Causes serious eye damage</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>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>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>H373</th>
<th>May cause damage to organs through prolonged or repeated exposure</th>
</tr>
</thead>
<tbody>
<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>H411</td>
<td>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>

SDS Prepared by: The Redstone Group, LLC
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T 614-923-7472
www.redstonegrp.com

LACO NA GHS SDS
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.