OMEGALAQ® Liquid Temperature Lacquers 450 °F (232 °C) Gray

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 450 °F (232 °C) Gray

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.
One Omega Drive
P.O. Box 4047
Stamford, Connecticut 06907-0047
(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
Muta. 2 H341
Carc. 1B H350
Repr. 1B H360
STOT SE 3 H335
STOT RE 3 H336
STOT SE 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
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H341 - Suspected of causing 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) :
P260 - Do not breathe mist, spray, vapours
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
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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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

2.3. Other hazards
Not applicable

2.4 Unknown acute toxicity (GHS-US)
0.25 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
0.25 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>
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</table>
| 1-bromopropane        | (CAS No) 106-94-5 | 71.37 - 73.57 | Flam, Liq. 2, H225
|                       |                    |         | Skin Irr, 2, H315
|                       |                    |         | Eye Irr. 2A, H319
|                       |                    |         | Repr. 1B, H360
|                       |                    |         | STOT SE 3, H336
|                       |                    |         | STOT SE 3, H335
|                       |                    |         | STOT RE 2, H373
| 1,1,1 Tris Ethane     | (CAS No) 27955-94-8| 23.71 - 23.95 | Aquatic Chronic 2, H411
| Phenolphthalein       | (CAS No) 77-09-8   | 1.23    | Muta. 2, H341
|                       |                    |         | Carc. 1B, H350
|                       |                    |         | Repr. 2, H361
| 1,2-epoxybutane       | (CAS No) 106-88-7  | 0 - 0.52 | Flam, Liq. 2, H225
|                       |                    |         | Acute Tox. 4 (Oral), H302
|                       |                    |         | Acute Tox. 4 (Dermal), H312
|                       |                    |         | Acute Tox. 4 (Inhalation), H332
|                       |                    |         | Skin Irr. 2, H315
|                       |                    |         | Eye Irr. 2A, H319
|                       |                    |         | Carc. 2, H351
|                       |                    |         | STOT SE 3, H335
|                       |                    |         | Aquatic Chronic 3, H412

Full text of H-phrases: 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. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. 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: Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries: Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs.
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.

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Symptoms/injuries after ingestion: Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

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: No particular fire or explosion hazard.
 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
6.1.1. For non-emergency personnel
Protective equipment: Wear suitable gloves resistant to chemical penetration. Wear heat resistant protected gloves and clothing to withstand the temperature of the molten product. Wear chemical goggles if material is handled hot.
 Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Wear suitable gloves. Dust impervious gloves. Chemical goggles or safety glasses. Avoid breathing mist/vapour/spray.
 Emergency procedures: 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: Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapour/spray. 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.

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.

7.3. Specific end use(s)
Temperature indicator.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMEGALAQ® Liquid Temperature Lacquers 450 °F (232 °C) Gray</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td>ACGIH Not applicable</td>
<td>OSHA Not applicable</td>
</tr>
<tr>
<td>1-bromopropane (106-94-5)</td>
<td>ACGIH Not applicable</td>
<td>OSHA Not applicable</td>
</tr>
<tr>
<td>Phenolphthalein (77-09-8)</td>
<td>ACGIH Not applicable</td>
<td>OSHA Not applicable</td>
</tr>
<tr>
<td>1,1,1 Tris Ethane (27955-94-8)</td>
<td>ACGIH Not applicable</td>
<td>OSHA Not applicable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Avoid creating mist or spray. Avoid splashing. Eyewash stations. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust ventilation of closed transfer systems to minimize exposures.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear suitable gloves resistant to chemical penetration. Wear thermal protective gloves when working around hot surfaces.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing. Impervious 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.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Opaque liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Gray</td>
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<tr>
<td>Odour</td>
<td>Solvent</td>
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<td>Odour threshold</td>
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<tr>
<td>pH</td>
<td>No data available</td>
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<tr>
<td>Melting point</td>
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<tr>
<td>Freezing point</td>
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<tr>
<td>Boiling point</td>
<td>70 °C</td>
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<tr>
<td>Flash point</td>
<td>&gt; 93.3 °C (PMCC)</td>
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<tr>
<td>Auto-ignition temperature</td>
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<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Specific Gravity = 1.23</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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 : 3.8 - 9.5 vol %

9.2. Other information
VOC content : 7.59 lb/gal; 911 g/L

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.

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

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

1-bromopropane (106-94-5)
LD50 oral rat > 2000
LD50 dermal rat > 2000 mg/kg
LC50 inhalation rat (ppm) 14374 ppm/4h
ATE CLP (gases) 14374.000 ppmv/4h

Phenolphthalein (77-09-8)
LD50 oral rat > 2000 mg/kg bodyweight

1,1,1 Tris Ethane (27955-94-8)
LD50 oral rat > 5000 mg/kg bodyweight
LD50 dermal rat > 2000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Suspected of causing genetic defects.
Carcinogenicity : May cause cancer.

1,2-epoxybutane (106-88-7)
IARC group 2B - Possibly carcinogenic to humans

Phenolphthalein (77-09-8)
IARC group 2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status 3 - Reasonably anticipated to be Human Carcinogen
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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.

1-bromopropane (106-94-5)
NOAEL (inhalation, rat, dust/mist/fume, 90 days) 1 mg/l/6h/day

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.
Symptoms/injuries after ingestion: Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.
Likely routes of exposure: Skin and eye contact; Inhalation

SECTION 12: Ecological information

12.1 Toxicity

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

Phenolphthalein (77-09-8)
EC50 Daphnia 1 > 100 mg/l

1,1,1 Tris Ethane (27955-94-8)
LC50 fish 1 >= 18.7 no mortalities
EC50 Daphnia 1 > 18 mg/l
ErC50 (algae) 8.6 mg/l
NOEC (acute) 18.7 mg/l
NOEC chronic crustacea 0.16 mg/l 21 d
NOEC chronic algae 0.23 mg/l 72-hour

12.2 Persistence and degradability

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%

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

Phenolphthalein (77-09-8)
Log Kow 2.4

1,1,1 Tris Ethane (27955-94-8)
Log Kow 3.88
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according to Canadian Hazardous Products Regulations (HPR)

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
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

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

1,2-epoxybutane (106-88-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on 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

Phenolphthalein (77-09-8)
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.

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.

Phenolphthalein (77-09-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.

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

EU-Regulations

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)

Phenolphthalein (77-09-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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1,1,1 Tris Ethane (27955-94-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

OMEGALAQ® Liquid Temperature Lacquers 450 °F (232 °C) Gray
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></th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
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<td>Yes</td>
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<td>Proposition 65 -</td>
<td>Carcinogens List</td>
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Phenolphthalein (77-09-8)

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<tr>
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1,2-epoxybutane (106-88-7)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - Massachusetts - 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>
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</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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</table>

Phenolphthalein (77-09-8)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

SECTION 16: Other information

Indication of changes: Original Document.
OMEGALAQ® Liquid Temperature Lacquers 450 °F (232 °C) Gray
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
generated according to Canadian Hazardous Products Regulations (HPR)

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09/03/2015

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
- PNEC: Predicted No Effect Level
- 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:
- 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity:
- 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H225</th>
<th>Highly flammable liquid and vapour</th>
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</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</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>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>H341</td>
<td>Suspected of causing genetic defects</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H351</td>
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</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
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<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>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>

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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.