SAFETY DATA SHEET
Gunther Ultra Bond Mirror Mastic

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

1.1. Product identifier
Product name Gunther Ultra Bond Mirror Mastic
Product number GN100E

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Sealant.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet
Supplier C. R. Laurence of Europe
Charles Babbage Avenue
Kingsway Business Park
Rochdale
OL16 4NW
+44 (0) 1706 863600
+44 (0) 1706 869860
crl@crlaurence.co.uk

1.4. Emergency telephone number
Emergency telephone 00 800 0421 6144 Monday - Friday 08:00 - 17:00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC/1272/2008)
Physical hazards Flam. Liq. 2 - H225
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361 STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304
Environmental hazards Not Classified

2.2. Label hazards
Pictogram
Signal word Danger
Gunther Ultra Bond Mirror Mastic

Hazard statements
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, eye and face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with national regulations.

Contains
Naphtha (petroleum), solvent-refined light, Acetone

Supplementary precautionary statements
P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P405 Store locked up.

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Naphtha (petroleum), solvent-refined light</th>
<th>25 -&lt;50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 64741-84-0</td>
<td>EC number: 265-086-6</td>
</tr>
</tbody>
</table>

Classification
Flam. Liq. 1 - H224
Skin Irrit. 2 - H315
Repr. 2 - H361
STOT SE 3 - H336
STOT RE 2 - H373
Asp. Tox. 1 - H304
### Gunther Ultra Bond Mirror Mastic

<table>
<thead>
<tr>
<th>Component</th>
<th>Conc.</th>
<th>CAS Number</th>
<th>EC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>2.5-&lt;10%</td>
<td>67-64-1</td>
<td>200-662-2</td>
</tr>
<tr>
<td>Xylene</td>
<td>2.5-&lt;10%</td>
<td>1330-20-7</td>
<td>215-535-7</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>&lt;1%</td>
<td>100-41-4</td>
<td>202-849-4</td>
</tr>
</tbody>
</table>

#### Classification

- **Flam. Liq. 2 - H225**
- **Eye Irrit. 2 - H319**
- **STOT SE 3 - H336**
- **Flam. Liq. 3 - H226**
- **Acute Tox. 4 - H312**
- **Acute Tox. 4 - H332**
- **Skin Irrit. 2 - H315**
- **STOT RE 2 - H373**
- **Asp. Tox. 1 - H304**

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information**

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

**Inhalation**

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**

Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

**Skin contact**

Rinse with water.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders**

First aid personnel should wear appropriate protective equipment during any rescue.
Gunther Ultra Bond Mirror Mastic

4.2. Most important symptoms and effects, both acute and delayed

General information
See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

Ingestion
May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Skin contact
Redness. Irritating to skin.

Eye contact
Irritating to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards
Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapours. Evacuate area. Ventilate closed spaces before entering them. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Wash thoroughly after dealing with a spillage. Do not touch or walk into spilled material. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours. Use suitable respiratory protection if ventilation is inadequate.

6.2. Environmental precautions
Gunther Ultra Bond Mirror Mastic

Environmental precautions
Immiscible with water. Aquatic toxicity is unlikely to occur. However, large or frequent spills may have hazardous effects on the environment. Absorb spillage with non-combustible, absorbent material. Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections
Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Suspected of damaging fertility. Suspected of damaging the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Store locked up. Eliminate all sources of ignition. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Protect containers from damage.

Storage class
Flammable liquid storage.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters
Occupational exposure limits
Acetone
Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³
Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³
Xylene
Gunther Ultra Bond Mirror Mastic

Long-term exposure limit (8-hour TWA): WEL 50 ppm  220 mg/m³
Short-term exposure limit (15-minute):  WEL 100 ppm  441 mg/m³
Sk

**Ethylbenzene**

Long-term exposure limit (8-hour TWA): WEL 100 ppm  441 mg/m³
Short-term exposure limit (15-minute):  WEL 125 ppm  552 mg/m³
Sk
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

### 8.2. Exposure controls

#### Protective equipment

**Appropriate engineering controls**

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Nitrile rubber. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Frequent changes are recommended.

**Other skin and body protection**

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

**Hygiene measures**

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

**Respiratory protection**

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is ‘CE’-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387.

**Environmental exposure controls**

Keep container tightly sealed when not in use.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

**Appearance**

Paste.

**Colour**

Tan.

**Odour**

Characteristic.
Gunther Ultra Bond Mirror Mastic

Odour threshold
No information available.

pH
Not determined.

Melting point
Not determined.

Initial boiling point and range
60°C @ 758 mm Hg

Flash point
-17°C Flam. Liq. 2 - H225 Highly flammable liquid and vapour.

Evaporation rate
Not determined.

Flammability (solid, gas)
Not relevant.

Upper/lower flammability or explosive limits
Not determined.

Vapour pressure
Not determined.

Vapour density
Not determined.

Relative density
1.02

Solubility(ies)
Insoluble in water.

Auto-ignition temperature
465°C/869°F

Decomposition Temperature
Not determined.

Viscosity
Not determined.

Explosive properties
Not determined.

Oxidising properties
Does not meet the criteria for classification as oxidising.

9.2. Other information
No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
The following materials may react strongly with the product: Oxidising agents.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to avoid
Oxidising materials. Acids - oxidising.

10.6. Hazardous decomposition products
Hazardous decomposition products
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).
**Gunther Ultra Bond Mirror Mastic**

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity - oral**
- **Notes (oral LD₅₀)**: Based on available data the classification criteria are not met.

**Acute toxicity - dermal**
- **Notes (dermal LD₅₀)**: Based on available data the classification criteria are not met.
- **ATE dermal (mg/kg)**: 11,000.0

**Acute toxicity - inhalation**
- **Notes (inhalation LC₅₀)**: Based on available data the classification criteria are not met.
- **ATE inhalation (vapours mg/l)**: 110.0

**Skin corrosion/irritation**
- **Animal data**: Irritating.

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

**Respiratory sensitisation**
- **Respiratory sensitisation**: Based on available data the classification criteria are not met.

**Skin sensitisation**
- **Skin sensitisation**: Based on available data the classification criteria are not met.

**Germ cell mutagenicity**
- **Genotoxicity - in vitro**: Based on available data the classification criteria are not met.

**Carcinogenicity**
- **Carcinogenicity**: Based on available data the classification criteria are not met.
- **IARC carcinogenicity**: Contains a substance which may be potentially carcinogenic. IARC Group 2B Possibly carcinogenic to humans.

**Reproductive toxicity**
- **Reproductive toxicity - fertility**: Suspected of damaging fertility.
- **Reproductive toxicity - development**: Suspected of damaging the unborn child.

**Specific target organ toxicity - single exposure**
- **STOT - single exposure**: STOT SE 3 - H336 May cause drowsiness or dizziness.
- **Target organs**: Central nervous system

**Specific target organ toxicity - repeated exposure**
- **STOT - repeated exposure**: STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**
- **Aspiration hazard**: Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

**General information**
- **Avoid contact during pregnancy/while nursing. May damage fertility. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.**
Gunther Ultra Bond Mirror Mastic

Inhalation
A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

Ingestion
May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Skin contact
Redness. Irritating to skin.

Eye contact
Irritating to eyes.

Route of entry
Ingestion Inhalation Skin and/or eye contact

Target organs
Central nervous system

Toxicological information on ingredients.

Naphtha (petroleum), solvent-refined light

**Acute toxicity - oral**

**Notes (oral LD₅₀)**
LD₅₀ > 5000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

**Acute toxicity - dermal**

**Notes (dermal LD₅₀)**
LD₅₀ > 2000 mg/kg, Dermal, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

**Acute toxicity - inhalation**

**Notes (inhalation LC₅₀)**
Based on available data the classification criteria are not met.

**Skin corrosion/irritation**

**Animal data**
Dose: 0.5ml, 4 hours, Rabbit Erythema/eschar score: Moderate to severe erythema (3). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

**Based on available data the classification criteria are not met.**

**Skin sensitisation**

**Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.**

**Germ cell mutagenicity**

**Genotoxicity - in vitro**
Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo**
Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Carcinogenicity**

**Based on available data the classification criteria are not met.**

**Reproductive toxicity**

**Reproductive toxicity - fertility**
Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure**
Gunther Ultra Bond Mirror Mastic

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT - single exposure</td>
<td>Vapours may cause drowsiness and dizziness.</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Aspiration hazard if swallowed.</td>
</tr>
</tbody>
</table>

### Acetone

<table>
<thead>
<tr>
<th>Acute toxicity - oral</th>
<th>5,800.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>Notes (oral LD₅₀)</td>
<td>REACH dossier information. Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>ATE oral (mg/kg)</td>
<td>5,800.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity - dermal</th>
<th>7,427.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Notes (dermal LD₅₀)</td>
<td>REACH dossier information. Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>ATE dermal (mg/kg)</td>
<td>7,427.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity - inhalation</th>
<th>54,000.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>Acute toxicity inhalation (LC₅₀ gases ppmV)</td>
<td>128.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>Notes (inhalation LC₅₀)</td>
<td>REACH dossier information. Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>ATE inhalation (gases ppm)</td>
<td>54,000.0</td>
</tr>
<tr>
<td>ATE inhalation (vapours mg/l)</td>
<td>128.0</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation

Human skin model test | Repeated exposure may cause skin dryness or cracking. |

### Skin sensitisation

<table>
<thead>
<tr>
<th>Test</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guinea pig maximization test (GPMT) - Guinea pig</td>
<td>Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.</td>
</tr>
</tbody>
</table>

### Germ cell mutagenicity
Gunther Ultra Bond Mirror Mastic

Genotoxicity - in vitro
Gene mutation: Negative. REACH dossier information. This substance has no evidence of mutagenic properties.

Carcinogenicity
NOEL 0.1 ml, Dermal, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity
Maternal toxicity: - NOAEC: 2200 ppm, Inhalation, Rat No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure
STOT SE 3 - H336 Vapours may cause drowsiness and dizziness.
Target organs
Central nervous system

Specific target organ toxicity - repeated exposure
NOAEL 20000 ppm, Oral, Mouse REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.

Xylene

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg)
Species
Notes (oral LD₅₀)
ATE oral (mg/kg)
5,251.0
Mouse
REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg)
Species
Notes (dermal LD₅₀)
ATE dermal (mg/kg)
2,000.0
Rabbit
REACH dossier information. Harmful in contact with skin.

Acute toxicity - inhalation
Notes (Inhalation LC₅₀)
ATE inhalation (vapours mg/l)
11.0
Harmful if inhaled.

Skin corrosion/irritation
Animal data
Dose: 0.5 ml, 4 hours, Rabbit Primary dermal irritation index: 3 REACH dossier information. Irritating. Erythema/eschar score: Well defined erythema (2). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Moderately irritating.

Serious eye damage/irritation
Serious eye damage/irritation
Based on available data the classification criteria are not met.
Gunther Ultra Bond Mirror Mastic

Respiratory sensitisation
Based on available data the classification criteria are not met.

Skin sensitisation
Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity
Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vitro
Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo
Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity
NOAEL 1000 mg/kg, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity
Two-generation study - NOAEC >500 ppm, Inhalation, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Developmental toxicity: - NOAEC: >500 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure
NOAEL 250 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard
Based on available data the classification criteria are not met.

SECTION 12: Ecological Information

Ecotoxicity
Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity
Based on available data the classification criteria are not met.

Ecological information on ingredients.

Naphtha (petroleum), solvent-refined light

Toxicity
Based on available data the classification criteria are not met.

Acute toxicity - fish
LL₅₀, 96 hours: 8.2 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates
EL₅₀, 48 hours: 4.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EL₅₀, 72 hours: 3.1 mg/l, Selenastrum capricornutum
Gunther Ultra Bond Mirror Mastic

**Acetone**

**Toxicity**

Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

**Acute toxicity - fish**

\( LC_{90}, 96 \text{ hours}: 6210 \text{ mg/l}, \) Pimephales promelas (Fat-head Minnow)

REACH dossier information.

**Acute toxicity - aquatic invertebrates**

\( LC_{50}, 48 \text{ hours}: 8800 \text{ mg/l}, \) Daphnia pulex

REACH dossier information.

**Acute toxicity - aquatic plants**

NOEC, 8 days: 530 mg/l, Microcystis aeruginosa

REACH dossier information.

**Acute toxicity - microorganisms**

EC\(_{12}, 30 \text{ minutes}: 1000 \text{ mg/l}, \) Activated sludge

REACH dossier information.

**Chronic toxicity - aquatic invertebrates**

NOEC, 28 days: 1106 - 2212 mg/l, Daphnia magna

LOEC, 28 days: 2212 mg/l, Daphnia magna

REACH dossier information.

**Xylene**

**Toxicity**

Based on available data the classification criteria are not met.

**Acute toxicity - fish**

\( LC_{50}, 96 \text{ hours}: 2.6 \text{ mg/l}, \) Onchorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates**

IC\(_{50}, 24 \text{ hours}: 2.2 \text{ mg/l}, \) Daphnia magna

**Acute toxicity - aquatic plants**

EC\(_{50}, 73 \text{ hours}: 4.36 \text{ mg/l}, \) Selenastrum capricornutum

12.2. Persistence and degradability

**Persistence and degradability**

The degradability of the product is not known.

**Ecological information on ingredients.**

**Naphtha (petroleum), solvent-refined light**

**Persistence and degradability**

The product is readily biodegradable.

**Biodegradation**

Water - Degradation 77%: 28 days

**Acetone**

**Persistence and degradability**

The product is readily biodegradable.

**Phototransformation**

Water - DT\(_{50} \): 10 days

REACH dossier information.

**Biodegradation**

Water - Degradation (90.9%): 28 days

REACH dossier information.

**Xylene**
Gunther Ultra Bond Mirror Mastic

Persistence and degradability
The product is readily biodegradable.

Phototransformation
Water - DT₅₀: 1.09 days

Biodegradation
Water - Degradation 87.8%: 28 days
Water - Degradation 68%: 10 days
Water - Degradation, Estimated value. 50%: 23 days, o-xylene
Water - Degradation, Estimated value. 50%: 13 days, p-xylene

12.3. Bioaccumulative potential
Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

Naphtha (petroleum), solvent-refined light
Bioaccumulative potential No data available on bioaccumulation.

Acetone
Partition coefficient log Pow: -0.24 REACH dossier information.

Xylene
Bioaccumulative potential BCF: 25.9, Onchorhynchus mykiss (Rainbow trout)
Partition coefficient log Pow: 3.12

12.4. Mobility in soil
Mobility The product is insoluble in water.

Ecological information on ingredients.

Naphtha (petroleum), solvent-refined light
Mobility The product contains substances which are insoluble in water and which may spread on water surfaces.

Acetone
Mobility The product is soluble in water.

Henry's law constant 2.929 Pa m³/mol @ 25°C REACH dossier information.
Surface tension 23700 mN/m @ 20°C REACH dossier information.

Xylene
Mobility The product is soluble in water. Volatile liquid.
Adsorption/desorption coefficient Water - log Koc: 2.73 @ 20-25°C
Henry's law constant 623 Pa m³/mol @ 25°C Estimated value.
Surface tension 28.75 mN/m @ 25°C

12.5. Results of PBT and vPvB assessment
Gunther Ultra Bond Mirror Mastic

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

**Naphtha (petroleum), solvent-refined light**

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

**Acetone**

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

**Xylene**

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

SECTION 14: Transport information

General

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

**UN No. (ADR/RID)** 1133

**UN No. (IMDG)** 1133

**UN No. (ICAO)** 1133

**UN No. (ADN)** 1133

14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ADHESIVES

**Proper shipping name (IMDG)** ADHESIVES

**Proper shipping name (ICAO)** ADHESIVES
Gunther Ultra Bond Mirror Mastic

Proper shipping name (ADN) ADHESIVES

14.3. Transport hazard class(es)
ADR/RID class 3
ADR/RID classification code F1
ADR/RID label 3
IMDG class 3
ICAO class/division 3
ADN class 3

Transport labels

14.4. Packing group
ADR/RID packing group II
IMDG packing group II
ICAO packing group II
ADN packing group II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user
Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-E, S-D
ADR transport category 2
Emergency Action Code •3YE
Hazard Identification Number (ADR/RID) 33
Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) "CDG 2009".
EH40/2005 Workplace exposure limits.
Gunther Ultra Bond Mirror Mastic

EU legislation

Dangerous Preparations Directive 1999/45/EC.
Dangerous Substances Directive 67/548/EEC.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008


Training advice

Read and follow manufacturer's recommendations.

Revision date

28/04/2016

Revision

9

Supersedes date

24/10/2014

SDS number

1770

Hazard statements in full

H224 Extremely flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.