



# Bilby 3D

## **MATERIAL DATA SAFETY SHEET**

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

### **Section 1: AUSTRALIAN COMPANY DETAILS**

In Australia the product is imported and distributed by:  
Bilby 3D Pty Ltd

Mailing Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Head Office Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Contact Phone: 1800 847 333

### **Section 2: AUSTRALIAN EMERGENCY CONTACT**

#### **Emergency Contact**

In the event of an emergency please contact:

Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

### **Section 3: AUSTRALIAN ISSUE DATA**

**Date of Issue** : 1 March 2020

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Durable DL110HTR  
Type of product : Photocentric Daylight 3D Resin

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
Use of the substance/mixture : For use in Photocentric Daylight Printers

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Photocentric Ltd, UK  
Cambridge House  
Oxney Road  
Peterborough, PE1 5YW - United Kingdom  
T +44 (0)1733349937  
[info@photocentric.co.uk](mailto:info@photocentric.co.uk) - <https://photocentricgroup.com/>

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 1733 349937 (Office hours only)  
Transport Emergencies for US & CANADA: For Hazardous Materials [or Dangerous Goods]  
Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703-527-3887 CCN 992854

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Specific target organ toxicity — Single exposure, Category 3, H335  
Respiratory tract irritation  
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411  
Full text of H-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

GHS07

GHS09

Signal word (CLP) :

Danger

Contains :

Proprietary (Monomer); Proprietary (Triacrylate)

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|                                |  |
|--------------------------------|--|
| Hazard statements (CLP)        | : H302 - Harmful if swallowed.<br>H315 - Causes skin irritation.<br>H318 - Causes serious eye damage.<br>H335 - May cause respiratory irritation.<br>H411 - Toxic to aquatic life with long lasting effects.   |
| Precautionary statements (CLP) | : P264 - Wash hands thoroughly after handling.<br>P273 - Avoid release to the environment.<br>P280 - Wear eye protection, protective clothing, protective gloves.<br>P301+P312 - IF SWALLOWED: Call doctor if you feel unwell.<br>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P391 - Collect spillage.<br>P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| EUH-statements                 | : EUH208 - Contains Proprietary (Photoinitiator), Proprietary (Crosslinking agent). May produce an allergic reaction.  |

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                             | %           | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|----------------------------------|-------------|--|
| Proprietary (Diacylate)          | ≥ 50 – < 70 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  |
| Proprietary (Monomer)            | ≥ 25 – < 50 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335                        |
| Proprietary (Triacylate)         | ≥ 5 – < 15  | Acute Tox. 4 (Oral), H302<br>Aquatic Chronic 2, H411   |
| Proprietary (Crosslinking agent) | ≥ 0.1 – < 1 | Eye Irrit. 2, H319<br>Skin Sens. 1, H317   |
| Proprietary (Photoinitiator)     | ≥ 0.1 – < 1 | Skin Sens. 1, H317<br>Aquatic Chronic 4, H413  |
| Proprietary (Photoinitiator)     | ≥ 0.1 – < 1 | Flam. Sol. 1, H228<br>Repr. 2, H361f<br>STOT RE 2, H373<br>Aquatic Chronic 2, H411                             |
| Proprietary (Crosslinking agent) | < 1         | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |

Full text of H- and EUH-statements: see section 16

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 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. Call a poison center or a doctor if you feel unwell.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.                |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. Take off contaminated clothing. 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. Call a physician immediately.  |
| First-aid measures after ingestion    | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. If swallowed, seek medical advice immediately and show this container or label. Rinse mouth out with water. |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : May be harmful in contact with skin. May be harmful if swallowed and enters airways.                                 |
| Symptoms/effects after inhalation   | : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause respiratory irritation. |
| Symptoms/effects after skin contact | : May be harmful in contact with skin. Irritation. May cause an allergic skin reaction.                                |
| Symptoms/effects after eye contact  | : Serious damage to eyes.  |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. May cause irritation to the digestive tract.  |

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

Treat symptomatically. In all cases of doubt, or when symptoms persist, seek medical attention. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|  |  |
|--|--|
| Fire hazard                                      | : In case of fire, irritating fumes come free. |
| Explosion hazard                                 | : No direct explosion hazard.                  |
| Reactivity in case of fire                       | : Corrosive vapours.                           |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.                 |

#### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Precautionary measures fire    | : Evacuate area. Keep container closed when not in use. Keep cool. Protect from sunlight. This product is not to be used under conditions of poor ventilation.   |
| Firefighting instructions      | : Do not enter fire area without proper protective equipment, including respiratory protection. In case of fire: stop leak if safe to do so. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.   |
| Other information              | : High temperature decomposition products are harmful by inhalation.   |

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Evacuate area. Absorb spillage to prevent material damage. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. See section 8 of the SDS for more information on personal protective equipment. Avoid breathing vapours, spray, mist.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Ventilate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas.

#### 6.3. Methods and material for containment and cleaning up

For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Avoid contact with skin, eyes and clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapours, spray, mist. Avoid contact with skin and eyes. Wear personal protective equipment.  
Handling temperature : 10 – 50 °C  
Hygiene measures : Wear personal protective equipment. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation, especially in confined areas. Store in a well-ventilated place. Keep container tightly closed.  
Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
Incompatible materials : Direct sunlight.  
Storage temperature : < 25 °C  
Storage area : Store in a well-ventilated place.  
Special rules on packaging : Store in a closed container.  
Packaging materials : Do not store in corrodable metal. Store always product in container of same material as original container.

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 7.3. 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

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Wear recommended personal protective equipment. Safety glasses. Gloves.

#### Materials for protective clothing:

Wear suitable protective clothing and gloves

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

#### Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

#### 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     | : Liquid.         |
| Colour         | : amber.          |
| Odour          | : characteristic. |

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|   |                              |
|---|------------------------------|
| Odour threshold                                 | : No data available          |
| pH  | : No data available          |
| Relative evaporation rate (butylacetate=1)      | : No data available          |
| Melting point                                   | : Not applicable             |
| Freezing point                                  | : No data available          |
| Boiling point                                   | : No data available          |
| Flash point                                     | : No data available          |
| Auto-ignition temperature                       | : No data available          |
| Decomposition temperature                       | : No data available          |
| Flammability (solid, gas)                       | : Not applicable             |
| Vapour pressure                                 | : No data available          |
| Relative vapour density at 20 °C                | : No data available          |
| Relative density                                | : No data available          |
| Solubility                                      | : No data available          |
| Partition coefficient n-octanol/water (Log Pow) | : No data available          |
| Viscosity, kinematic                            | : No data available          |
| Viscosity, dynamic                              | : 420 (400 – 600) mPa·s 25°C |
| 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

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

May be corrosive to metals.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

### Durable DL110HTR

|                |                          |
|----------------|--------------------------|
| ATE CLP (oral) | 839.161 mg/kg bodyweight |
|----------------|--------------------------|

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Proprietary (Diacrylate) |              |
|--------------------------|--------------|
| LD50 oral rat            | > 2000 mg/kg |

| Proprietary (Monomer) |  |
|-----------------------|--|
| LD50 oral rat         | 300 – 2000 mg/kg bodyweight OECD Guideline 423 |
| LD50 dermal rat       | > 2000 mg/kg bodyweight OECD Guideline 423     |

| Proprietary (Photoinitiator) |   |
|------------------------------|---|
| LD50 oral rat                | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral)) |
| LD50 dermal rat              | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/EEC                       |

| Proprietary (Crosslinking agent) |  |
|----------------------------------|--|
| LD50 oral rat                    | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral)) |
| LD50 dermal rabbit               | > 13200 mg/kg bodyweight Animal: rabbit  |

| Proprietary (Crosslinking agent) |  |
|----------------------------------|--|
| LD50 oral rat                    | 1000 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)   |
| LC50 Inhalation - Rat            | > 3.363 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity) |

| Proprietary (Photoinitiator) |  |
|------------------------------|--|
| LD50 oral rat                | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:OECD GUIDELINE No.401 (CORRESPONDING TO 84/449/EEC, B.1) |
| LD50 dermal rat              | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:OECD GUIDELINE No.402 (CORRESPONDING TO 84/449/EEC, B.3) |

| Proprietary (Triacrylate) |  |
|---------------------------|--|
| LD50 oral rat             | 2000 mg/kg (Method: OECD Test Guideline 423) |

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Skin corrosion/irritation         | : Causes skin irritation.           |
| Serious eye damage/irritation     | : Causes serious eye damage.        |
| Respiratory or skin sensitisation | : Not classified                    |
| Germ cell mutagenicity            | : Not classified                    |
| Carcinogenicity                   | : Not classified                    |
| Reproductive toxicity             | : Not classified                    |
| STOT-single exposure              | : May cause respiratory irritation. |
| STOT-repeated exposure            | : Not classified                    |

| Proprietary (Photoinitiator) |   |
|------------------------------|---|
| NOAEL (oral, rat, 90 days)   | > 1000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/eec |

| Proprietary (Crosslinking agent) |   |
|----------------------------------|---|
| NOAEL (oral, rat, 90 days)       | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |



# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Proprietary (Crosslinking agent) |   |
|----------------------------------|---|
| NOAEL (oral, rat, 90 days)       | ≥ 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

| Proprietary (Photoinitiator) |   |
|------------------------------|---|
| NOAEL (oral, rat, 90 days)   | < 10.8 mg/kg bodyweight Animal: other:ALBINO RAT/Tif: RAIf (SPF) HYBRIDIS OF RII/1×RII/2, Guideline: other:EEC Directive, B.7 |

|   |  |
|---|--|
| Aspiration hazard                                   | : Not classified   |
| Potential adverse human health effects and symptoms | : Harmful if swallowed. Harmful in contact with skin. Irritation: severely irritant to eyes. Irritation: may cause irritation to the respiratory system. |
| Other information                                   | : Likely routes of exposure: ingestion, skin and eye.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : Harmful to aquatic life. Toxic to aquatic life with long lasting effects. |
| Ecology - water   | : Harmful to aquatic life with long lasting effects.                        |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects.                          |
| Not rapidly degradable                                    |   |

| Proprietary (Monomer) |  |
|-----------------------|--|
| LC50 fish 1           | 120 mg/l Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static) |
| EC50 Daphnia 1        | > 120 mg/l Daphnia magna (OECD Guideline 202, part 1, static)            |
| EC50 72h algae (1)    | > 120 mg/l Pseudokirchneriella subcapitata (OECD Guideline 201, static)  |

| Proprietary (Photoinitiator) |  |
|------------------------------|--|
| LC50 fish 1                  | > 0.09 mg/l Test organisms (species): other:Zebra Fish Brachydanio rerio                               |
| EC50 Daphnia 1               | > 1.175 mg/l Test organisms (species): other aquatic crustacea:Daphnia Magna                           |
| EC50 72h algae (1)           | > 0.26 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| Proprietary (Crosslinking agent) |   |
|----------------------------------|---|
| LC50 fish 1                      | 1.95 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)                  |
| EC50 Daphnia 1                   | 70.7 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h algae (1)               | 2.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| Proprietary (Crosslinking agent) |  |
|----------------------------------|--|
| LC50 fish 1                      | 0.034 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)              |
| EC50 Daphnia 1                   | > 0.35 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h algae (1)               | > 0.12 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Proprietary (Photoinitiator)   |  |
|--------------------------------|--|
| LC50 fish 1                    | > 100 mg/l Test organisms (species): other:ZEBRA FISH          |
| EC50 other aquatic organisms 1 | 2.15 mg/l Test organisms (species): other aquatic crustacea:DM |

| Proprietary (Triacrylate) |   |
|---------------------------|---|
| LC50 fish 1               | 2.7 mg/l Danio rerio (zebra fish)                       |
| EC50 Daphnia 1            | 158.3 mg/l Daphnia magna (Water flea)                   |
| EC50 72h algae (1)        | 25.7 mg/l Pseudokirchneriella subcapitata (green algae) |

### 12.2. Persistence and degradability

| Proprietary (Monomer)         |   |
|-------------------------------|---|
| Persistence and degradability | Product is practically not biodegradable. |

| Proprietary (Photoinitiator)  |   |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |

| Proprietary (Triacrylate)     |   |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

### 12.3. Bioaccumulative potential

| Proprietary (Monomer)                           |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 0.8 |

| Proprietary (Triacrylate)                       |  |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 1.9 – 2.61 25 °C (OECD Test Guideline 117) |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| Component                             |  |
|---------------------------------------|--|
| Proprietary (Diacrylate) (52404-33-8) | PBT: not relevant – no registration required |

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |  |
|--|--|
| Regional legislation (waste)               | : Disposal must be done according to official regulations.   |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.   |
| Product/Packaging disposal recommendations | : Avoid release to the environment. Comply with applicable regulations for solid waste disposal. Dispose in a safe manner in accordance with local/national regulations. |
| Additional information                     | : Clean up even minor leaks or spills if possible without unnecessary risk. Consult an expert on waste disposal or treatment.  |
| Ecology - waste materials                  | : Avoid release to the environment.  |

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR   | IMDG   | IATA   | ADN  | RID  |
|---|--|--|--|--|
| <b>14.1. UN number</b>  |  |  |  |  |
| UN 3082   | UN 3082  | UN 3082  | UN 3082  | UN 3082  |
| <b>14.2. UN proper shipping name</b>  |  |  |  |  |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Durable DL110HTR)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Durable DL110HTR)                                   | Environmentally hazardous substance, liquid, n.o.s. (Durable DL110HTR)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Durable DL110HTR)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Durable DL110HTR)                 |
| <b>Transport document description</b>   |  |  |  |  |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Durable DL110HTR), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Durable DL110HTR), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Durable DL110HTR), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Durable DL110HTR), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Durable DL110HTR), 9, III |
| <b>14.3. Transport hazard class(es)</b>   |  |  |  |  |
| 9   | 9  | 9  | 9  | 9  |
|   |  |  |  |  |
| <b>14.4. Packing group</b>  |  |  |  |  |
| III   | III  | III  | III  | III  |
| <b>14.5. Environmental hazards</b>  |  |  |  |  |
| Dangerous for the environment : Yes   | Dangerous for the environment : Yes<br>Marine pollutant : Yes  | Dangerous for the environment : Yes  | Dangerous for the environment : Yes  | Dangerous for the environment : Yes  |
| No supplementary information available  |  |  |  |  |

### 14.6. Special precautions for user

#### Overland transport

|   |                           |
|---|---------------------------|
| Classification code (ADR)   | : M6                      |
| Special provisions (ADR)  | : 274, 335, 375, 601      |
| Limited quantities (ADR)  | : 5I                      |
| Excepted quantities (ADR)   | : E1                      |
| Packing instructions (ADR)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR)  | : PP1                     |
| Mixed packing provisions (ADR)  | : MP19                    |
| Portable tank and bulk container instructions (ADR)                     | : T4                      |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29               |
| Tank code (ADR)   | : LGBV                    |
| Vehicle for tank carriage   | : AT                      |
| Transport category (ADR)  | : 3                       |
| Special provisions for carriage - Packages (ADR)                        | : V12                     |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13                    |
| Hazard identification number (Kemler No.)                               | : 90                      |

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Orange plates : 

Tunnel restriction code (ADR) : -  
EAC code : •3Z

### Transport by sea

Special provisions (IMDG) : 274, 335, 969  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP01, P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP29  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A

### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y964  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 964  
PCA max net quantity (IATA) : 450L  
CAO packing instructions (IATA) : 964  
CAO max net quantity (IATA) : 450L  
Special provisions (IATA) : A97, A158, A197, A215  
ERG code (IATA) : 9L

### Inland waterway transport

Classification code (ADN) : M6  
Special provisions (ADN) : 274, 335, 375, 601  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : M6  
Special provisions (RID) : 274, 335, 375, 601  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Special packing provisions (RID) : PP1  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP29  
Tank codes for RID tanks (RID) : LGBV  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31  
Colis express (express parcels) (RID) : CE8  
Hazard identification number (RID) : 90

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### 15.1.2. National regulations

###### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

###### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : PI-784 is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

###### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### Abbreviations and acronyms:

|         |   |
|---------|---|
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE     | Acute Toxicity Estimate   |
| BLV     | Biological limit value  |
| CAS-No. | Chemical Abstract Service number  |
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| DMEL    | Derived Minimal Effect level  |
| DNEL    | Derived-No Effect Level   |
| EC50    | Median effective concentration  |
| EC-No.  | European Community number   |
| EN      | European Standard   |
| IATA    | International Air Transport Association   |
| IMDG    | International Maritime Dangerous Goods  |
| LC50    | Median lethal concentration   |

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|       |   |
|-------|---|
| LD50  | Median lethal dose  |
| LOAEL | Lowest Observed Adverse Effect Level  |
| NOAEC | No-Observed Adverse Effect Concentration  |
| NOAEL | No-Observed Adverse Effect Level  |
| NOEC  | No-Observed Effect Concentration  |
| OEL   | Occupational Exposure Limit   |
| PBT   | Persistent Bioaccumulative Toxic  |
| PNEC  | Predicted No-Effect Concentration   |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS   | Safety Data Sheet   |
| vPvB  | Very Persistent and Very Bioaccumulative  |
| WGK   | Water Hazard Class  |

### Full text of H- and EUH-statements:

|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1     | Hazardous to the aquatic environment — Acute Hazard, Category 1                            |
| Aquatic Chronic 1   | Hazardous to the aquatic environment — Chronic Hazard, Category 1                          |
| Aquatic Chronic 2   | Hazardous to the aquatic environment — Chronic Hazard, Category 2                          |
| Aquatic Chronic 4   | Hazardous to the aquatic environment — Chronic Hazard, Category 4                          |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2  |
| Flam. Sol. 1        | Flammable solids, Category 1   |
| Repr. 2             | Reproductive toxicity, Category 2  |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1        | Skin sensitisation, Category 1   |
| STOT RE 2           | Specific target organ toxicity — Repeated exposure, Category 2                             |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H228                | Flammable solid.   |
| H302                | Harmful if swallowed.  |
| H315                | Causes skin irritation.  |
| H317                | May cause an allergic skin reaction.   |
| H318                | Causes serious eye damage.   |
| H319                | Causes serious eye irritation.   |
| H335                | May cause respiratory irritation.  |
| H361f               | Suspected of damaging fertility.   |
| H373                | May cause damage to organs through prolonged or repeated exposure.                         |
| H400                | Very toxic to aquatic life.  |
| H410                | Very toxic to aquatic life with long lasting effects.                                      |
| H411                | Toxic to aquatic life with long lasting effects.   |
| H413                | May cause long lasting harmful effects to aquatic life.                                    |

# Durable DL110HTR

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|        |  |
|--------|--|
| EUH208 | Contains Proprietary (Photoinitiator), Proprietary (Crosslinking agent). May produce an allergic reaction. |
|--------|--|

SDS EU (REACH Annex II) Photocentric edited.

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.