

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

#### 1.1. Product identifier

Product form : Mixture  
 Article number : 97021  
 Product code : 97021

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

##### 1.2.1. Relevant identified uses

Function or use category : Adhesives, binding agents

##### 1.2.2. Uses advised against

No additional information available

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

BARDAHL NL - OCD NEDERLAND BV  
 Maxwellstraat 41  
 3316 GP Dordrecht - Nederland  
 T 0031 78 651 2322 - F 0031 78 617 4848  
[rjjonker@bardahl.nl](mailto:rjjonker@bardahl.nl) - [www.bardahl.nl](http://www.bardahl.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010  
 During office hours: 8.30 t/m 17:00 h

| Country | Official advisory body                                   | Address                                  | Emergency number   | Comment |
|---------|--|--|--|---------|
| Ireland | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>+353 1 809 2166<br>(public, 8am - 10pm,<br>7/7) |         |

### SECTION 2: Hazards identification

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

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

Skin corrosion/irritation, Category 2 H315  
 Serious eye damage/eye irritation, Category 1 H318  
 Sensitisation — Skin, Category 1 H317  
 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Full text of H statements : see section 16

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

The product has to be labeled due to the calculation procedure of the General Classification guideline for preparations of the EU", DIR."

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Hazardous ingredients :

methacrylic acid, monoester with propane-1,2-diol; acrylic acid, prop-2-enoic acid; Silane

Hazard statements (CLP) :

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage

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|                                |   |
|--------------------------------|---|
| Precautionary statements (CLP) | H335 - May cause respiratory irritation<br>: P261 - Avoid breathing vapours, spray, mist, gas, fume, dust<br>P280 - Wear protective gloves, face protection, eye protection, protective clothing<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>P310 - Immediately call a POISON CENTER, a doctor<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention<br>P501 - Dispose of contents/container in accordance with local regulations |
|--------------------------------|---|

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Regulation 648/2004 / EC concerning detergents : Adhesives, sealants

| Name  | Product identifier  | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|----------|---|
| methacrylic acid, monoester with propane-1,2-diol                   | (CAS No) 27813-02-1<br>(EC no) 248-666-3                            | 25 - 100 | Eye Irrit. 2, H319<br>Skin Sens. 1, H317  |
| acrylic acid, prop-2-enoic acid<br>(Note D)                         | (CAS No) 79-10-7<br>(EC no) 201-177-9<br>(EC index no) 607-061-00-8 | 3 - 5    | Flam. Liq. 3, H226<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1A, H314<br>Aquatic Acute 1, H400                       |
| Silane  |   | 1 - 3    | Eye Dam. 1, H318  |
| $\alpha,\alpha$ -dimethylbenzyl hydroperoxide, cumene hydroperoxide | (CAS No) 80-15-9<br>(EC no) 201-254-7<br>(EC index no) 617-002-00-8 | 1 - 2.5  | Org. Perox. E, H242<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373<br>Skin Corr. 1B, H314<br>Aquatic Chronic 2, H411 |
| Isopropylbenzene  | (CAS No) 98-82-8<br>(EC no) 202-704-5<br>(EC index no) 601-024-00-X | 0.3 - 1  | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411   |

#### Specific concentration limits:

| Name  | Product identifier  | Specific concentration limits   |
|---|---|---|
| acrylic acid, prop-2-enoic acid                                     | (CAS No) 79-10-7<br>(EC no) 201-177-9<br>(EC index no) 607-061-00-8 | (C $\geq$ 1) STOT SE 3, H335  |
| $\alpha,\alpha$ -dimethylbenzyl hydroperoxide, cumene hydroperoxide | (CAS No) 80-15-9<br>(EC no) 201-254-7<br>(EC index no) 617-002-00-8 | (C < 10) STOT SE 3, H335<br>(1 $\leq$ C < 3) Eye Irrit. 2, H319<br>(3 $\leq$ C < 10) Eye Dam. 1, H318<br>(3 $\leq$ C < 10) Skin Irrit. 2, H315<br>(C $\geq$ 10) Skin Corr. 1B, H314 |

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Remove/Take off immediately all contaminated clothing.   |
| First-aid measures after inhalation   | : Allow breathing of fresh air. Get medical advice/attention. When unconsciousness transport in a recovery position.                         |
| First-aid measures after skin contact | : Wash skin thoroughly with mild soap and water. If skin irritation occurs: Get medical advice/attention.                                    |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Seek medical advice.   |
| First-aid measures after ingestion    | : Rinse mouth. Drink plenty of water. Do NOT induce vomiting. If swallowed seek medical advice immediately and show this container or label. |

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

No additional information available

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use fire extinguishing methods suitable to surrounding conditions.

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

Fire hazard : High temperature may liberate toxic gases.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Nitrogen oxides. Under certain fire conditions, traces of other toxic gases cannot be excluded.

### 5.3. Advice for firefighters

Precautionary measures fire : Do not breathe gas/vapour/aerosol.

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Use self-contained breathing apparatus.

Other information : Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

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

General measures : Avoid contact with skin and eyes.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Dispose in a safe manner in accordance with local/national regulations.

### 6.4. Reference to other sections

See Headings 7 and 8. See Heading 10. See Heading 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : No special measures are required if used and stored according to specifications.

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

Storage conditions : Store in original container. Store in dry, cool, well-ventilated area.

Incompatible materials : heat. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| methacrylic acid, monoester with propane-1,2-diol (27813-02-1) |                          |
|--|--------------------------|
| DNEL/DMEL (Workers)  |                          |
| Long-term - systemic effects, dermal                           | 4.2 mg/kg bodyweight/day |
| DNEL/DMEL (General population)                                 |                          |
| Long-term - systemic effects, dermal                           | 4.2 mg/kg bodyweight/day |
| PNEC (Water)   |                          |
| PNEC aqua (freshwater)   | 0.904 mg/l               |
| PNEC aqua (intermittent, marine water)                         | 0.904 mg/l               |
| PNEC (Sediment)  |                          |
| PNEC sediment (freshwater)                                     | 6.28 mg/kg dwt           |

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### methacrylic acid, monoester with propane-1,2-diol (27813-02-1)

PNEC sediment (marine water) 6.28 mg/kg dwt

#### PNEC (Soil)

PNEC soil 0.727 mg/kg dwt

### Silane

#### DNEL/DMEL (Workers)

Acute - systemic effects, dermal 21 mg/kg bodyweight/day

Acute - systemic effects, inhalation 147 mg/m<sup>3</sup>

Long-term - systemic effects, dermal 21 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 147 mg/m<sup>3</sup>

#### PNEC (Water)

PNEC aqua (freshwater) 1 mg/l

PNEC aqua (marine water) 0.1 mg/l

## 8.2. Exposure controls

|                        |  |
|------------------------|--|
| Hand protection        | : Wear suitable gloves resistant to chemical penetration. Selection of the glove material on consideration of the penetration times, permeability and degradation. Penetration time of glove material: ≥ 480 min (Latex). Latex gloves. Penetration time of glove material: ≥ 240 min (Nitril). Wear gloves to EN374 resistant to the solvent(s) in use. Gloves material: Nitrile. Refer to manufacturer's information |
| Eye protection         | : Avoid contact with eyes  |
| Respiratory protection | : High gas/vapour concentration: gas mask with filter type A   |
| Other information      | : The usual precautionary measures are to be adhered to when handling chemicals. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.   |

## SECTION 9: Physical and chemical properties

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

|  |                                       |
|--|---------------------------------------|
| Physical state                             | : Liquid                              |
| Colour                                     | : Green.                              |
| Odour                                      | : characteristic.                     |
| Odour threshold                            | : No data available                   |
| pH   | : No data available                   |
| Relative evaporation rate (butylacetate=1) | : No data available                   |
| Melting point                              | : No data available                   |
| Freezing point                             | : No data available                   |
| Boiling point                              | : No data available                   |
| Flash point                                | : > 100 °C                            |
| Auto-ignition temperature                  | : No data available                   |
| Decomposition temperature                  | : No data available                   |
| Flammability (solid, gas)                  | : No data available                   |
| Vapour pressure                            | : No data available                   |
| Relative vapour density at 20 °C           | : No data available                   |
| Relative density                           | : No data available                   |
| Density                                    | : 1.1 g/cm <sup>3</sup> (25°C)        |
| Solubility                                 | : Material nearly insoluble in water. |
| Log Pow                                    | : No data available                   |
| Viscosity, kinematic                       | : No data available                   |
| Viscosity, dynamic                         | : 2000 - 3000 mPa.s (Brookfield 3/20) |
| Explosive properties                       | : Product is not explosive.           |
| Oxidising properties                       | : No data available                   |
| Explosive limits                           | : No data available                   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

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### 10.2. Chemical stability

No decomposition if used according to specifications.

### 10.3. Possibility of hazardous reactions

Metal-salts.

### 10.4. Conditions to avoid

Heat. Direct sunlight.

### 10.5. Incompatible materials

No additional information available

### 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 : Irritating

| <b><math>\alpha,\alpha</math>-dimethylbenzyl hydroperoxide, cumene hydroperoxide (80-15-9)</b> |             |
|--|-------------|
| LD50 oral rat  | 382 mg/kg   |
| LD50 dermal rat  | 500 mg/kg   |
| LC50 inhalation rat (mg/l)   | 220 mg/l/4h |

| <b>Isopropylbenzene (98-82-8)</b>         |               |
|---|---------------|
| LD50 oral rat                             | 1400 mg/kg    |
| LD50 dermal rabbit                        | 10600 - 12300 |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | 24.7 mg/l/4h  |

| <b>Silane</b>      |                          |
|--------------------|--------------------------|
| LD50 oral rat      | 8025 mg/kg (OECD TG 401) |
| LD50 dermal rabbit | 4250 mg/kg (OECD TG 402) |

|  |   |
|--|---|
| Skin corrosion/irritation                          | : Irritant to skin and mucous membranes       |
| Serious eye damage/irritation                      | : Risk of serious damage to eyes              |
| Respiratory or skin sensitisation                  | : Sensitisation possible through skin contact |
| Germ cell mutagenicity                             | : Not classified                              |
| Carcinogenicity                                    | : Not classified                              |
| Reproductive toxicity                              | : Not classified                              |
| Specific target organ toxicity (single exposure)   | : Not classified                              |
| Specific target organ toxicity (repeated exposure) | : Not classified                              |
| Aspiration hazard                                  | : Not classified                              |

## SECTION 12: Ecological information

### 12.1. Toxicity

| <b>Isopropylbenzene (98-82-8)</b> |                         |
|-----------------------------------|-------------------------|
| LC50 other aquatic organisms 2    | 2.7 - 6.32 mg/l         |
| EC50 other aquatic organisms 2    | 2.6 mg/l 50/72h (Algae) |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

| <b>97021</b>   |   |
|----------------|---|
| Ecology - soil | Prevent entry to sewers and public waters. Endangering to drinking water. |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                   |  |
|-----------------------------------|--|
| Waste disposal recommendations    | : Dispose in a safe manner in accordance with local/national regulations.  |
| European List of Waste (LoW) code | : 08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS<br>08 04 00 - wastes from MFSU of adhesives and sealants (including waterproofing products)<br>08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances |

### SECTION 14: Transport information

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

#### 14.1. UN number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

#### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

#### 14.3. Transport hazard class(es)

##### ADR

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

##### IMDG

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not applicable |
|-----------------------------------|------------------|

##### IATA

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IATA) | : Not applicable |
|-----------------------------------|------------------|

##### ADN

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADN) | : Not applicable |
|----------------------------------|------------------|

##### RID

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (RID) | : Not applicable |
|----------------------------------|------------------|

#### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

#### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

#### 14.6. Special precautions for user

##### - Overland transport

No data available

##### - Transport by sea

No data available

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### - Air transport

No data available

### - Inland waterway transport

No data available

### - Rail transport

No data available

### 14.7. 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

#### 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

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

Indication of changes:

|  |               |       |  |
|--|---------------|-------|--|
|  | Supersedes    | Added |  |
|  | Revision date | Added |  |

Abbreviations and acronyms:

|   |
|---|
| Abbreviations and acronyms:<br>RID: Regulations Concerning the International Transport of Dangerous Goods by Rail<br>ICAO: International Civil Aviation Organization<br>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road<br>IMDG: International Maritime Code for Dangerous Goods<br>IATA: International Air Transport Association<br>GHS: Globally Harmonized System of Classification and labelling of Chemicals<br>EINECS: European Inventory of Existing Commercial Chemical Substances<br>ELINCS: European List of Notified Chemical Substances<br>CAS: Chemical Abstracts Service (division of the American Chemical Society)<br>VOC: Volatile Organic Compounds (USA, EU)<br>LC50: Lethal concentration, 50 percent<br>LD50: Lethal dose, 50 percent |
|---|

Full text of H- and EUH-statements:

|                           |  |
|---------------------------|--|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3  |
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4  |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4  |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1           | Hazardous to the aquatic environment — Acute Hazard, Category 1                            |
| Aquatic Chronic 2         | Hazardous to the aquatic environment — Chronic Hazard, Category 2                          |
| Asp. Tox. 1               | Aspiration hazard, Category 1  |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2  |
| Flam. Liq. 3              | Flammable liquids, Category 3  |
| Org. Perox. E             | Organic Peroxides, Type E  |
| Skin Corr. 1A             | Skin corrosion/irritation, Category 1A   |
| Skin Corr. 1B             | Skin corrosion/irritation, Category 1B   |
| Skin Sens. 1              | Sensitisation — Skin, 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 |
| H226                      | Flammable liquid and vapour  |

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|      |   |
|------|---|
| H242 | Heating may cause a fire  |
| H302 | Harmful if swallowed  |
| H304 | May be fatal if swallowed and enters airways                      |
| H312 | Harmful in contact with skin                                      |
| H314 | Causes severe skin burns and eye damage                           |
| H315 | Causes skin irritation  |
| H317 | May cause an allergic skin reaction                               |
| H318 | Causes serious eye damage   |
| H319 | Causes serious eye irritation                                     |
| H331 | Toxic if inhaled  |
| H332 | Harmful if inhaled  |
| H335 | May cause respiratory irritation                                  |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life  |
| H411 | Toxic to aquatic life with long lasting effects                   |

SDS EU (REACH Annex II)

*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*