**SAFETY DATA SHEET**

**BETOLUX AKVA**

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

**1.1 Product identifier**

- **Product name**: BETOLUX AKVA
- **Product description**: Polyurethane acrylate paint

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

Recommended use: Painting work

**1.3 Details of the supplier of the safety data sheet**

Manufacturer or Distributor:

Tikkurila Oyj
P.O. Box 53
FI-01301 VANTAA
FINLAND

Telephone: +358 20 191 2000

E-mail address of person responsible for this SDS:

Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com

**1.4 Emergency telephone number**

- **Telephone number**: 112 (24h)
- **Supplier or Manufacturer**: Tikkurila Oyj
  - Telephone number: +358 20 191 2000 (GMT +2) Mon-Fri 8-16

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

Product definition: Mixture

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

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**2.2 Label elements**

- **Signal word**: No signal word.
- **Hazard statements**: No hazard statements.

**Precautionary statements**

- **General**: Not applicable.
- **Prevention**: Not applicable.
- **Response**: Not applicable.
- **Storage**: Not applicable.
- **Disposal**: Not applicable.

**Supplemental label elements**: Contains 1,2-benzisothiazol-3(2H)-one (BIT). May produce an allergic reaction.

Wear protective gloves.

**2.3 Other hazards**
Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>3.2 Mixtures</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product/ingredient name</td>
<td>EC: 220-120-9</td>
<td>&lt;0,05</td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td></td>
<td>CAS: 2634-33-5</td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400 (M=1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and contribute to the classification of the substance and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 10 minutes.

Inhalation: Remove to fresh air.

Skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious). If significant amounts have been swallowed or if symptoms persist, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Contains: 1,2-benzisothiazol-3(2H)-one (BIT)
May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist.

Unsuitable extinguishing media: Do not use a direct water jet that could spread the fire.
Hazardous combustion products: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters
Special protective actions for fire-fighters: Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters: Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions: Do not allow to enter drains, water courses or soil.
6.3 Methods and materials for containment and cleaning up: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with water or detergent. Avoid using solvents.
6.4 Reference to other sections: See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage
7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid breathing vapor. Avoid inhalation of dust from sanding. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product.
7.2 Conditions for safe storage, including any incompatibilities: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature is +5°C ...+25°C. Do not allow to freeze. Store in accordance with local regulations.
7.3 Specific end use(s): None.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational exposure limits
No exposure limit value known.
Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNELs/DMELs
No DNELs/DMELs available.
PNECs
No PNECs available.
8.2 Exposure controls
Appropriate engineering controls
Provide adequate ventilation. Comply with the health and safety at work laws.

Individual protection measures
Eye/face protection : Safety eyewear should be used when there is a likelihood of exposure.
Hand protection : Wearing protective gloves. Gloves should be replaced regularly and if there is any
                 sign of damage to the glove material. The instructions and information provided by
                 the glove manufacturer on use, storage, maintenance and replacement must be
                 followed.
                 Recommended glove material (EN374):
                 > 8 hours (breakthrough time): nitrile rubber
                 Not recommended: PVA gloves
Skin protection : Wear appropriate personal protective clothing to prevent skin contact.
Respiratory protection : A respirator is not needed under normal and intended conditions of product use.
                        Wear a respirator with type P2 filter during sanding (EN149:2001). Be sure to use
                        an approved/certified respirator or equivalent. Check that mask fits tightly and
                        change filter regularly.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state : Liquid.
Color : Various
Odor : Mild.
Odor threshold : Not relevant for the hazard assessment of the product.
pH : Not relevant for the hazard assessment of the product.
Melting point/freezing point : 0°C (water)
Initial boiling point and boiling range : 100°C (water)
Flash point : >100 °C
Evaporation rate : Not relevant due the nature of the product.
Flammability (solid, gas) : Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits : No flammable ingredients present.
Vapor pressure : 3.2 kPa [room temperature] (water)
Vapor density : Not relevant for the hazard assessment of the product.
Density : 1.1 to 1.2 g/cm³
Solubility(ies) : Miscible in water.
Partition coefficient: n-octanol/water : Not available.
Auto-ignition temperature : Not relevant due the nature of the product.
Decomposition temperature : Not relevant for the hazard assessment of the product.
Viscosity : Not relevant for the hazard assessment of the product.
Explosive properties : No explosive ingredients present.
Oxidizing properties : No oxidizing ingredients present.

9.2 Other information
No additional information.
SECTION 10: Stability and reactivity

10.1 Reactivity : See Section 10.5.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid extreme heat and freezing.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:
oxidizing agents
strong acids
strong alkalis

10.6 Hazardous decomposition products : When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There is no testdata available on the product itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Long term exposure by inhalation may cause respiratory tract irritation. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-benzisothiazol-3(2H)-one (BIT)</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1020 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Not classified.

Irritation/Corrosion
Not classified.

Sensitization
The product is not classified as sensitizing by skin contact, but it contains following preservatives or other biocides which may produce an allergic reaction:
1,2-benzisothiazol-3(2H)-one (BIT)
2,2’-dithiobis[N-methylbenzamide] (DTBMA)

Mutagenicity
Not classified.

Carcinogenicity
Not classified.

Reproductive toxicity
Not classified.

Teratogenicity
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

Ecological testing has not been conducted on this product. Do not allow to enter drains, water courses or soil.

The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-benzisothiazol-3(2H)-one (BIT)</td>
<td>Acute EC50 0,36 mg/l</td>
<td>Algae - Skeletonema costatum</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 0,74 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

: No specific data.

12.3 Bioaccumulative potential

: No specific data.

12.4 Mobility in soil

| Soil/water partition coefficient ($K_{\text{OC}}$) | : Not available. |

| Mobility | : Not available. |

12.5 Results of PBT and vPvB assessment

| PBT | : Not applicable. |
| vPvB | : Not applicable. |

12.6 Other adverse effects

: Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: Remove as much product as possible from the tools before cleaning. Liquid residue must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 01 12</td>
<td>waste paint and varnish other than those mentioned in 08 01 11</td>
</tr>
</tbody>
</table>

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Methods of disposal

: Empty packaging should be recycled or disposed of in accordance with national regulations.

Special precautions

: No additional information.

SECTION 14: Transport information

This product is not regulated for carriage according to ADR/RID, IMDG, IATA.
<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available.

### SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

- Europe inventory: Not determined.
- VOC Directive: This product is in scope of Directive 2004/42/CE.

#### 15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

### SECTION 16: Other information

- **Abbreviations and acronyms:**
  - ATE = Acute Toxicity Estimate
  - CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
  - DMEL = Derived Minimal Effect Level
  - DNEL = Derived No Effect Level
  - EUH statement = CLP-specific Hazard statement
  - PBT = Persistent, Bioaccumulative and Toxic
  - PNEC = Predicted No Effect Concentration
  - RRN = REACH Registration Number
  - vPvB = Very Persistent and Very Bioaccumulative

- Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

- **Classification**
  - Not classified.

- **Justification**

**Version:** 2
This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.