

**BETOLUX AKVA**

Date 31.5.2012

Previous date: 25.11.2008

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier**
- 1.1.1 Commercial Product Name**  
BETOLUX AKVA
- 1.1.2 Product code**  
412 -series
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- 1.2.1 Recommended use**  
Painting work.  
Description: Water-based polyurethane-acrylate paint.
- 1.3 Details of the supplier of the safety data sheet**
- 1.3.1 Supplier**  
Tikkurila Oyj
- P.O.Box** P.O.Box 53  
**Postcode and post office** FI-01301 VANTAA  
FINLAND
- Telephone** +358 9 857 71  
**Telefax** +358 9 8577 6936
- 1.3.4 Responsible for the Safety Data Sheet:**  
Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com
- 1.4 Emergency telephone number**
- 1.4.1 Telephone number, name and address**  
Tikkurila Oyj, Environment and Safety: +358 9 857 71 (Mon-Fri 8-16 Finnish time)

**2. HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture**  
The product is not classified as dangerous in accordance with EU Directive 1999/45/EC.
- 2.2 Label elements**  
The product does not have a warning label.
- 2.3 Other hazards**  
Other hazards are not known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.2 Mixtures		Hazardous components		Chemical name of the substance	Concentration	Classification
CAS number	EINECS					
34590-94-8	252-104-2			Dipropyleneglycol-methylether	1 - 5 %	-

**4. FIRST AID MEASURES**

- 4.1 Description of first aid measures**  
In all cases of doubt, or when symptoms persist, seek medical attention.
- 4.1.2 Inhalation**  
Remove to fresh air.
- 4.1.3 Skin contact**  
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

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- 4.1.4 Eye contact**  
Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 15 minutes and seek medical advice if necessary.
- 4.1.5 Ingestion**  
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious). Obtain medical attention, when necessary.
- 4.2 Most important symptoms and effects, both acute and delayed**  
None known.
- 4.3 Indication of immediate medical attention and special treatment needed**  
None.

**5. FIREFIGHTING MEASURES**

- 5.1 Extinguishing media**
- 5.1.1 Suitable extinguishing media**  
The product is water based and is not flammable. If necessary, use alcohol resistant foam, CO<sub>2</sub>, powders or water spray/mist.
- 5.1.2 Extinguishing media which must not be used for safety reasons**  
None known.
- 5.2 Special hazards arising from the substance or mixture**  
Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.
- 5.3 Advice for firefighters**  
Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

**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 or water courses.
- 6.3 Methods and materials for containment and cleaning up**  
Contain and collect spillage with absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with water or detergent; avoid the use of solvents.
- 6.4 Reference to other sections**  
See also Section 13 for waste disposal instructions.

**7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store in a cool, dry, well ventilated place. Keep away from oxidising agents, from strongly alkaline and strongly acid materials. No smoking. Keep container tightly closed. Do not allow to freeze.
- 7.3 Specific end use(s)**  
None.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**

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**8.1.1 Occupational exposure limit values**

Dipropylenglycol methylether (EU)	50 ppm (8 h)	Skin	
Dipropylenglycol methylether (TLV)	100 ppm (8 h)		150 ppm (15 min)

**8.1.2 Other information on limit values**

EU = Occupational Exposure Limit Values according to EU Directives 1998/24/EC, 2000/39/EC, 2006/15/EC, 2009/161/EU.

TLV = Threshold Limit Values according to ACGIH 2009 (American Conference of Governmental Industrial Hygienists)

Skin = A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin.

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Provide adequate ventilation.

**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

If ventilation during spray-application is insufficient, use appropriate certified respirators with gas, vapour and dust filter AP.

**8.2.2.2 Hand protection**

Always wear protective gloves.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

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 protective glove type is e.g.: nitrile rubber (breakthrough time > 480 min.)

PVA gloves are not recommended.

**8.2.2.3 Eye/face protection**

Use safety eyewear, specially during spray-application.

**8.2.2.4 Skin protection**

Wear suitable protective clothing during spray-application.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Coloured, viscous liquid

**9.1.6 Initial boiling point and boiling range**

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**9.1.7 Flash point**

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**9.1.10 Explosive properties****9.1.10.1 Lower explosion limit**

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**9.1.10.2 Upper explosion limit**

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**9.1.11 Vapour pressure**

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**9.1.13 Relative density**

1,1

**9.1.14 Solubility(ies)****9.1.14.1 Water solubility**

Soluble

**9.2 Other information**

None.

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

See section 10.5.

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- 10.2 Chemical stability**  
Stable under recommended storage and handling conditions (see section 7).
- 10.3 Possibility of hazardous reactions**  
See section 10.5.
- 10.4 Conditions to avoid**  
When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials**  
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- 10.6 Hazardous decomposition products**  
Hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc. may produce when exposed to high temperatures.

**11. TOXICOLOGICAL INFORMATION**

- 11.1 Information on toxicological effects**  
There are no toxicological test data available on the product itself.
- 11.1.3 Sensitisation**  
The product is not classified as sensitizing by skin contact, but it contains small amounts of preservatives or other biocides which may produce an allergic reaction: 1,2-benzisothiazol-3(2H)-one and 2,2'-dithiobis(N-methylbenzamide)
- 11.1.8 Other information on acute toxicity**  
**Inhalation:** Long term exposure to spray mist may cause irritation of respiratory system.  
**Skin contact:** Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis. The liquid splashed in the eyes may cause irritation.  
**Ingestion:** Ingestion may cause nausea.

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
No relevant data.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**  
No relevant data.
- 12.3 Bioaccumulative potential**  
No relevant data.
- 12.4 Mobility in soil**  
No data available.
- 12.5 Results of PBT and vPvB assessment**  
No data available.
- 12.6 Other adverse effects**  
There is no ecotoxicological test data available on the product itself. The product should not be allowed to enter drains or water courses.  
The product is not classified as environmentally hazardous.

**13. DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods**

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**Product residues:**

Gather residues into waste containers. Destroy according to the rules given by local authorities. EWC-code for liquid waste is e.g 08 01 11 or 08 01 12 (waste paint and varnish).

**Packaging waste:**

Empty cans should be recycled or disposed of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

14.1	<b>UN number</b>	None
14.2	<b>UN proper shipping name</b>	None
14.3	<b>Transport hazard class(es)</b>	Not classified
14.4	<b>Packing group</b>	None
14.5	<b>Environmental hazards</b>	The product is not classified as environmentally hazardous according to international transport regulations.
14.6	<b>Special precautions for users</b>	None known.
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	None known.

**15. REGULATORY INFORMATION**

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	None known.
15.2	<b>Chemical safety assessment</b>	Has not been performed.

**16. OTHER INFORMATION**

16.8	<b>Additional information</b>	This Safety Data Sheet is prepared in accordance with Annex II (EU) No 453/2010 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. Additional information available from: Tikkurila Oyj, Product Safety, P.O. Box 53, FIN-01301 VANTAA, FINLAND, Telephone +358 9 857 71, Fax +358 9 8577 6936, E-mail: productsafety@tikkurila.com
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**Signature**

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