

**AKVACOAT Epoxy Coating (plastic part)**

Date 30.8.2011

Previous date: 24.10.2008

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

AKVACOAT Epoxy Coating (plastic part)

**1.1.2 Product code**

008 4041

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

Painting work.

Description: Two-component, water-borne epoxy paint. Only for professional use. The product is not intended for consumer use.

**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

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+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

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****67/548/EEC - 1999/45/EC**

Xi, N; R36/38-43-51/53

**2.2 Label elements****67/548/EEC - 1999/45/EC**

Xi Irritant

N Dangerous for the environment

**R-phrases(s)**

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases(s)**

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29 Do not empty into drains.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S51 Use only in well-ventilated areas.

**Contains:**

Epoxy resins (bisphenol A and bisphenol F, mw &lt; 700).

**Special regulations on certain preparations**

Contains epoxy constituents. See information supplied by the manufacturer.

**2.3 Other hazards**

Other hazards are not known.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

<b>CAS number</b>	<b>EINECS</b>	<b>Chemical name of the substance</b>	<b>Concentration</b>	<b>Classification</b>
25068-38-6	500-033-5	Epoxy resin (mw < 700)	40 - 60 %	Xi; N; R36/38-43-51/53
9003-36-5	500-006-8	Epoxy resin (bisphenol F, mw < 700)	10 - 20 %	Xi; N; R36/38-43-51/53

**3.3 Other information**

See Section 16 for full text of R-phrases and H-statements.

**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, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention.

**4.1.3 Skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

**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) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

May cause sensitization by skin contact. Irritating to eyes and skin.

**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**

Recommended: 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**

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Avoid skin contact with the product. Refer to protective measures listed in sections 7 and 8.

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**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 non-combustible absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with a 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.

**7.3 Specific end use(s)**

None.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

The product does not contain reportable concentrations of substances with the exposure limit values (Occupational Exposure Limit Values according to EU Directives and Threshold Limit Values according to ACGIH 2009).

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

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and vapour below the OEL, suitable respiratory protection must be worn.

The product contains epoxy constituents. Skin contact with the product and exposure to vapour should be avoided.

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

Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient. During continuous and long-term work the use of motor-driven or air-fed respirators is recommended.

**8.2.2.2 Hand protection**

Always wear approved protective gloves against chemicals.

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. 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 (splash protection),

butyl rubber (splash protection),

laminated foil (breakthrough time > 480 min.)

PVC or natural rubber gloves are not recommended.

**8.2.2.3 Eye/face protection**

Use safety eyewear designed to protect against splash of liquids.

**8.2.2.4 Skin protection**

Personnel should wear protective clothing.

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

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.

**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**

If solvents are used to lower the viscosity, it should be noticed, that in confined or poorly ventilated spaces solvent vapours may form explosive mixtures with air. 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**

Exposure by inhalation and skin contact may cause sensitization. Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin and respiratory sensitizer and an irritant. It contains low molecular epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies.

**11.1.8 Other information on acute toxicity**

**Inhalation:** Long term exposure may cause irritation of respiratory system and mucous membranes of nose and throat.

**Skin contact:** Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis. Splashed in the eyes cause eye irritation.

**Ingestion:** Ingestion may cause nausea.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity****12.1.1 Aquatic toxicity**

Epoxy resin (mw < 700): LC50 = 3,1 mg/l, Pimephales promelas; toxic. EC50 = 1,4 - 1,7 mg/l, Daphnia magna; toxic. IC50 > 42,6 mg/l, bacteria, growth inhibition, 18 h; harmful

**12.2 Persistence and degradability****12.2.1 Biodegradation**

Epoxy resin (mw < 700): 12 %, 28 d, OECD 302B; not readily biodegradable.

**12.3 Bioaccumulative potential**

Epoxy resin (mw < 700): octanol/water partition coefficient log Pow = 3,7 - 3,9.

**12.4 Mobility in soil****12.5 Results of PBT and vPvB assessment****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.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****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 (waste paint and varnish containing organic solvents or other dangerous substances).

**Note!** The ready for use mixture of paint and hardener generates much heat. Allow the remainder of the mixture to harden in a safe place, e.g. in the open.

**Packaging waste:**

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

**14. TRANSPORT INFORMATION**

**14.1 UN number** 3082

**14.2 UN proper shipping name** environmentally hazardous substance, liquid, N.O.S. (epoxy resin)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

**14.5 Environmental hazards**

The product is classified as environmentally hazardous according to ADR regulations and IMDG Code (marine pollutant).

**14.6 Special precautions for users**

None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

None known.

**14.8 Further Information**

EmS: F-A,S-F

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

None known.

**15.2 Chemical safety assessment**

Has not been performed.

**AKVACOAT Epoxy Coating (plastic part)**

Date 30.8.2011

Previous date: 24.10.2008

**16. OTHER INFORMATION****16.5 Full text of R-phrases and/or Hazard statements (H-statements) referred to under sections 2 and 3**

R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**16.8 Additional information**

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:

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Telephone +358 9 857 71, Fax +358 9 8577 6936, E-mail: [productsafety@tikkurila.com](mailto:productsafety@tikkurila.com)

**Signature**

f1/akk

**AKVACOAT Epoxy Coating (hardener)**

Date 30.8.2011

Previous date: 25.10.2010

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

AKVACOAT Epoxy Coating (hardener)

**1.1.2 Product code**

101 -series

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

Painting work.

Description: A two component waterborne epoxy paint, pigmented hardener part. Only for professional use. The product is not intended for consumer use.

**1.3 Details of the supplier of the safety data sheet****1.3.1 Supplier**

Tikkurila Oyj

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**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

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****67/548/EEC - 1999/45/EC**

N, Xi; R36/38-43-51/53

**2.2 Label elements****67/548/EEC - 1999/45/EC**

Xi Irritant

N Dangerous for the environment

**R-phrases(s)**

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases(s)**

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29 Do not empty into drains.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S51 Use only in well-ventilated areas.

**Contains:**

Isophorone diamine, m-xylylene diamine and nonylphenol.

**2.3 Other hazards**

Other hazards are not known.

**AKVACOAT Epoxy Coating (hardener)**

Date 30.8.2011

Previous date: 25.10.2010

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.2 Mixtures				
Hazardous components				
CAS number	EINECS	Chemical name of the substance	Concentration	Classification
-	-	Aliphatic polyamine	5 - 10 %	N; R51/53
2855-13-2	220-666-8	Isophorone diamine	1 - 5 %	C; R21/22-34-43-52/53
1477-55-0	216-032-5	m-Xylylene diamine	1 - 5 %	C; R20/22-35-43-52/53
39423-51-3	500-105-6	Trimethylolpropane polyoxypropylene triamine	1 - 5 %	C; R21/22-34
107-98-2	203-539-1	1-Methoxy-2-propanol	1 - 5 %	-; R10-67
67-63-0	200-661-7	Isopropanol	1 - 5 %	F; Xi R11-36-67
68603-25-8	-	Alcohols, C8 - C10, ethoxylated propoxylated	< 1 %	Xi, N; R41-51/53
25154-52-3	246-672-0	Nonylphenol	< 1 %	C; N; R22-34-62-63-50/53

**3.3 Other information**  
See Section 16 for full text of R-phrases and H-statements.

**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, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention.
- 4.1.3 Skin contact**  
Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
- 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) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
- 4.2 Most important symptoms and effects, both acute and delayed**  
May cause sensitization by skin contact. Irritating to eyes and skin.
- 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**  
Recommended: 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.



**AKVACOAT Epoxy Coating (hardener)**

Date 30.8.2011

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**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Avoid skin contact with the product. 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 non-combustible absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with a 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.
- 7.3 Specific end use(s)**  
None.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**
- 8.1.1 Occupational exposure limit values**
- |                            |                             |                  |
|----------------------------|-----------------------------|------------------|
| 1-Methoxy-2-propanol (EU)  | 100 ppm (8 h)               | 150 ppm (15 min) |
|                            | Skin                        |                  |
| 1-Methoxy-2-propanol (TLV) | 100 ppm (8 h)               | 150 ppm (15 min) |
| Isopropanol (TLV)          | 200 ppm (8 h)               | 400 ppm (15 min) |
| m-Xylylene diamine (TLV-C) | 0,1 mg/m <sup>3</sup> (8 h) |                  |
- 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.  
Skin = A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin.  
TLV = Threshold Limit Values according to ACGIH 2009 (American Conference of Governmental Industrial Hygienists)  
TLV-C = Threshold Limit Values - Ceiling limit according to ACGIH 2009 (American Conference of Governmental Industrial Hygienists)
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**  
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and vapour below the OEL, suitable respiratory protection must be worn.  
The product contains epoxy constituents. Skin contact with the product and exposure to vapour should be avoided.
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**

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Previous date: 25.10.2010

Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient. During continuous and long-term work the use of motor-driven or air-fed respirators is recommended.

**8.2.2.2 Hand protection**

Always wear approved protective gloves against chemicals.

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. 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 (splash protection),

butyl rubber (splash protection),

laminated foil (breakthrough time > 480 min.)

PVC or natural rubber gloves are not recommended.

**8.2.2.3 Eye/face protection**

Use safety eyewear designed to protect against splash of liquids.

**8.2.2.4 Skin protection**

Personnel should wear protective clothing.

**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**

-

**9.1.7 Flash point**

-

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

-

**9.1.10.2 Upper explosion limit**

-

**9.1.11 Vapour pressure**

-

**9.1.13 Relative density**

1,4

**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.

**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**

If solvents are used to lower the viscosity, it should be noticed, that in confined or poorly ventilated spaces solvent vapours may form explosive mixtures with air. 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**

**AKVACOAT Epoxy Coating (hardener)**

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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**

Exposure by inhalation and skin contact may cause sensitization.

**11.1.8 Other information on acute toxicity**

**Inhalation:** Long term exposure may cause irritation of respiratory system and mucous membranes of nose and throat.

**Skin contact:** Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis. Splashed in the eyes cause eye irritation.

**Ingestion:** Ingestion may cause nausea.

**12. ECOLOGICAL INFORMATION****12.1 Toxicity****12.1.1 Aquatic toxicity**

Nonylphenol: LC50 = 0,9 mg/l, fish, 96 h; toxic. EC50 = 0,027-0,41 mg/l, alga, 96 h; very toxic

**12.2 Persistence and degradability****12.2.1 Biodegradation**

Nonylphenol: 78 %, 40 d, 7 % 28 d

**12.3 Bioaccumulative potential**

Nonylphenol: octanol/water partition coefficient log Pow = 3,28

**12.4 Mobility in soil****12.5 Results of PBT and vPvB assessment****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.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****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 (waste paint and varnish containing organic solvents or other dangerous substances).

**Packaging waste:**

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

**14. TRANSPORT INFORMATION**

**14.1 UN number** 3082

**14.2 UN proper shipping name** environmentally hazardous substance, liquid, N.O.S. (nonylphenol)

**14.3 Transport hazard class(es)** 9

**14.4 Packing group** III

**14.5 Environmental hazards**

The product is classified as environmentally hazardous according to ADR regulations and IMDG Code (marine pollutant).

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- 14.6 Special precautions for users**  
None known.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
None known.
- 14.8 Further Information**  
EmS: F-A,S-F

**15. REGULATORY INFORMATION**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Regulation (EC) No 689/2008 of the European Parliament and of the Council concerning the export and import of dangerous chemicals. Notification procedure for import and export of banned or severely restricted chemicals (PIC): nonylphenol
- 15.2 Chemical safety assessment**  
Has not been performed.

**16. OTHER INFORMATION**

- 16.5 Full text of R-phrases and/or Hazard statements (H-statements) referred to under sections 2 and 3**
- |        |  |
|--------|--|
| R10    | Flammable.   |
| R20/22 | Harmful by inhalation and if swallowed.  |
| R21/22 | Harmful in contact with skin and if swallowed.   |
| R22    | Harmful if swallowed.  |
| R34    | Causes burns.  |
| R35    | Causes severe burns.   |
| R36/38 | Irritating to eyes and skin.   |
| R41    | Risk of serious damage to eyes.  |
| R43    | May cause sensitization by skin contact.   |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.      |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.    |
| R62    | Possible risk of impaired fertility.   |
| R63    | Possible risk of harm to the unborn child.   |
- 16.8 Additional information**  
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:  
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**Signature**

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