

**FONTECOAT FL 100**

Date 27.10.2010

Previous date: 17.3.2008

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

- 1.1 Identification of the article**
- 1.1.1 Commercial Product Name**  
FONTECOAT FL 100
- 1.1.2 Product code**  
103 -series
- 1.2 Use of the Substance/Preparation**
- 1.2.1 Intended use**  
Painting work.  
Description: A two component water borne epoxy paint
- 1.3 Identification of the company**
- 1.3.1 Supplier**  
Tikkurila Oyj
- 1.3.2 Contact information:**
- 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

**2. HAZARDS IDENTIFICATION**

Irritant; Xi  
Dangerous for the environment, N  
May cause sensitization by skin contact. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Information on hazard labelling in section 15.1.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>3.1 Hazardous components</b>	<b>3.1.1 CAS number</b>	<b>EINECS</b>	<b>3.1.2 Chemical name of the substance</b>	<b>3.1.3 Concentration</b>	<b>3.1.4 Classification</b>
	2855-13-2	220-666-8	Isophorone diamine	1 - 5 %	C; R21/22-34-43-52/53
	67-63-0	200-661-7	Isopropanol	1 - 5 %	F; Xi; R11-36-67
	107-98-2	203-539-1	1-Methoxy-2-propanol	1 - 5 %	-; R10
	39423-51-3	500-105-6	Polyoxy propylene triamine	1 - 5 %	C; R21/22-34
	25154-52-3	246-672-0	Nonyl phenol	< 1 %	C; N; R22-34-62-63-50/53
	1477-55-0	220-666-8	m-Xylylene diamine	< 1 %	C; R20/22-34-43-52/53
	68603-25-8	-	Alcohols, C8 - C10, ethoxylated propoxylated	< 1 %	Xi, N; R41-51/53
	-	-	Aliphatic polyamine	5 - 10 %	N; R51/53

**4. FIRST AID MEASURES**

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- 4.1 Additional advice**  
In all cases of doubt, or when symptoms persist, seek medical attention.
- 4.2 Inhalation**  
Remove to fresh air, keep patient warm and at rest.
- 4.3 Skin contact**  
Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser.
- 4.4 Eye contact**  
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- 4.5 Ingestion**  
If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

**5. FIRE-FIGHTING MEASURES**

- 5.1 Suitable extinguishing media**  
Use foam, CO<sub>2</sub>, powder or water spray.
- 5.2 Extinguishing media which must not be used for safety reasons**  
Waterjet
- 5.3 Specific hazards**  
Fire will produce dense black smoke, which contains decomposition products. Avoid breathing the smoke.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions**  
Avoid skin contact with the product.
- 6.2 Environmental precautions**  
Do not allow to enter drains or water courses.
- 6.3 Methods for 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.

**7. HANDLING AND STORAGE**

- 7.1 Handling**  
Good ventilation must be provided. Keep away from sources of ignition. Take precautionary measures against static discharges.
- 7.2 Storage**  
Keep containers tightly closed. Store in a cool, dry, well ventilated place away from sources of heat and direct sunlight.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- 8.1 Exposure Limit Values**
- 8.1.1 Occupational exposure limit values**
- |                                     |                             |
|-------------------------------------|-----------------------------|
| Isopropanol (TLV-TWA)               | 200 ppm (8 h)               |
| 1-Metoksi-2-propanoli (TLV-TWA, EU) | 100 ppm (8 h)               |
| m-Xylylene diamine (TLV-C)          | 0,1 mg/m <sup>3</sup> (8 h) |
- 8.1.2 Information on limit values**

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TLV-TWA = Threshold Limit Values - Time-weighted average 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)  
EU = Occupational Exposure Limit Values according to EU Directives 1998/24/EC, 2000/39/EC, 2006/15/EC, 2009/161/EU.

**8.2 Exposure controls****8.2.1 Occupational exposure controls**

Provide adequate ventilation. Comply with the health and safety at work laws.

**8.2.1.1 Respiratory protection**

Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient.

**8.2.1.2 Hand protection**

Always wear approved protective gloves (e.g. nitrile rubber) against chemicals. Barrier creams may also help to protect the exposed areas of the skin.

**8.2.1.3 Eye protection**

Safety eyewear must be used, specially during the mixing of the components.

**8.2.1.4 Skin and body protection**

Use suitable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 General Information (appearance, odour)**

Coloured, viscous liquid, strong odour.

**9.2 Important Health Safety and Environmental Information****9.2.2 Boiling point/range**

-

**9.2.3 Flash point**

-

**9.2.5 Explosive properties****9.2.5.1 Lower explosion limit**

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**9.2.5.2 Upper explosion limit**

-

**9.2.7 Vapour pressure**

-

**9.2.8 Relative density**

1,4

**9.2.9 Solubility****9.2.9.1 Water solubility**

Miscible

**10. STABILITY AND REACTIVITY****10.1 Conditions to avoid**

If solvents are used to lower the viscosity, it should be noticed, that solvent vapours may form explosive mixtures with air.

**10.2 Materials to avoid**

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.3 Hazardous decomposition products**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**11. TOXICOLOGICAL INFORMATION****11.1 Acute toxicity**

See section 11.5.

**11.2 Primary irritation**

See section 11.5.

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**11.3 Sensitisation**

Exposure by inhalation and skin contact may cause sensitization.

**11.5 Human experience**

11.5.1 Inhalation: Long term exposure causes irritation of respiratory system and mucous membranes of nose and throat.

11.5.2 Skin contact: Splashes may cause skin and eye irritation.

11.5.3 Other effects: Harmful if taken internally.

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

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

**12.3 Persistence and degradability****12.3.1 Biodegradation**

Nonyl phenol: 78 %, 40 d, 7 % 28 d

**12.4 Bioaccumulative potential**

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

**12.6 Other adverse effects**

There is no data available on the preparation itself. The product should not be allowed to enter drains or water courses.

**13. DISPOSAL CONSIDERATIONS**

13.1 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).

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

**14. TRANSPORT INFORMATION**

<b>14.1</b>	<b>UN No</b>	3082
<b>14.2</b>	<b>Packing group</b>	III
<b>14.3</b>	<b>Land transport</b>	
<b>14.3.1</b>	<b>ADR/RID Class</b>	9
<b>14.3.3</b>	<b>Description of the goods</b>	environmentally hazardous substance, liquid, N.O.S. (nonylphenol)
<b>14.4</b>	<b>Sea transport</b>	
<b>14.4.1</b>	<b>IMDG Class</b>	9
<b>14.4.2</b>	<b>Proper shipping name</b>	environmentally hazardous substance, liquid, N.O.S. (nonylphenol)
	<b>Marine pollutant</b>	yes
<b>14.4.3</b>	<b>Further Information</b>	EmS: F-A,S-F
<b>14.5</b>	<b>Air transport</b>	
<b>14.5.1</b>	<b>ICAO/IATA Class</b>	9
<b>14.5.2</b>	<b>Proper shipping name</b>	environmentally hazardous substance, liquid, N.O.S. (nonylphenol)

**15. REGULATORY INFORMATION****15.1 Information on the warning label****15.1.1 Letter code of the warning symbol and indications of danger for the preparation**

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Xi Irritant  
N Dangerous for the environment

**15.1.2 Names of the ingredients given on the warning label**

Isophorone diamine  
Nonyl phenol  
m-Xylylene diamine

**15.1.3 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.

**15.1.4 S-phrases(s)**

S23v Do not breathe spray.  
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.

**16. OTHER INFORMATION****16.1 Full text of R-phrases referred to under sections 2 and 3**

R62 Possible risk of impaired fertility.  
R63 Possible risk of harm to the unborn child.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
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.  
R10 Flammable.  
R11 Highly 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.  
R36 Irritating to eyes.  
R41 Risk of serious damage to eyes.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R67 Vapours may cause drowsiness and dizziness.

**16.4 Additional information**

The information of this MSDS is based on the present state of our knowledge and on current EC laws. It is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

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

**Signature**

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