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

3.1 Hazardous components

3.1.1 CAS number	3.1.1 EINECS	3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
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

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, CO2, 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^3 (8 h)

8.1.2 Information on limit values

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**	-
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.

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

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

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-phrase(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-phrase(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 f0/akk