

KILPI roof coating

Date 24.3.2009

Previous date: 15.8.2005

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the article****1.1.1 Commercial Product Name**

KILPI roof coating

1.1.2 Product code

741 -series

1.2 Use of the Substance/Preparation**1.2.1 Intended use**

Painting work.

Description: Water-borne coating with modified acrylate dispersion.

1.3 Identification of the company**1.3.1 Supplier**

Tikkurila Oy

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

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

Tikkurila Oy, Environment and Safety: +358 9 857 71

2. HAZARDS IDENTIFICATION

Irritant; Xi.

May cause sensitization by skin contact. Harmful 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****EINECS****3.1.2****Chemical name of the substance****3.1.3****Concentration****3.1.4****Classification**

14808-60-7

238-878-4

Quartz

5 - 10 %

Xn; R48/20

1314-13-2

215-222-5

Zinc oxide

1 - 2,5 %

N; R50/53

107-98-2

203-539-1

1-Methoxy-2-propanol

1 - 5 %

-; R10

26530-20-1

247-761-7

2-Octyl-2H-isothiazol-3-one

< 0,2 %

T, N; R22-23/24-34-43-50/53

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.

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- 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**

- 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**
- | | |
|----------------------|-------------------------------|
| 1-Methoxy-2-propanol | 100 ppm (8 h) |
| Quartz | 0,025 mg/m ³ (8 h) |
| Zinc oxide | 2 mg/m ³ (8 h) |
- 8.1.2 Information on limit values**
TLV-TWA = Threshold Limit Values - Time-weighted average / ACGIH 2008
- 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. During spray-application use respirators with gas, vapour and dust filter AP. During continuous and long-term work the use of air-fed or motor-driven respirators is recommended.

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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 spray-application.

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

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

1,3 - 1,4

9.2.9 Solubility**9.2.9.1 Water solubility**

Soluble

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

10.2 Materials to avoid

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

May cause sensitization by skin contact.

11.5 Human experience

11.5.1 Inhalation: Spray mist causes irritation of mucous membranes of nose and throat and respiratory system.

11.5.2 Skin contact: Spray mist and 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**

Zinc oxide: EC50 = 0,17 mg/l, selenastrum capricornutum, 72 h; very toxic.

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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	-
14.2	Packing group	-
14.3	Land transport	
14.3.1	ADR/RID Class	not classified
14.4	Sea transport	
14.4.1	IMDG Class	not classified
14.5	Air transport	
14.5.1	ICAO/IATA Class	not classified

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

15.1.2 Names of the ingredients given on the warning label

2-Octyl-2H-isothiazol-3-one

Zinc oxide

15.1.3 R-phrases(s)

R43 May cause sensitization by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

15.1.4 S-phrases(s)

S2 Keep out of the reach of children.

S24 Avoid contact with skin.

S29 Do not empty into drains.

S37 Wear suitable gloves.

S46 If swallowed, seek medical advice immediately and show this container or label.

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

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R43 May cause sensitization by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10 Flammable.

R22 Harmful if swallowed.

R23/24 Toxic by inhalation and in contact with skin.

R34 Causes burns.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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 Oy, 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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