

KIVISIL Primer

Date 5.11.2009

Previous date: 3.10.2007

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

- 1.1 Identification of the article**
1.1.1 Commercial Product Name
 KIVISIL Primer
- 1.1.2 Product code**
 001 7100
- 1.2 Use of the Substance/Preparation**
1.2.1 Intended use
 Painting work
 Description: A water-borne, silicone based primer
- 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

Flammable

Irritant, Xi

Irritating to skin. Risk of serious damage to eyes. 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		3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
	3.1.1 CAS number	EINECS			
	67923-07-3	-	Polydimethyl siloxane	25 - 75 %	Xi; R38-41
	78-10-4	201-083-8	Tetraethyl silicate	1 - 5 %	Xn; R10-20-36/37
	64-19-7	200-580-7	Acetic acid	1 - 10 %	C; R10-35
	67-56-1	200-659-6	Methanol	< 1 %	F, T; R11-23/24/25-39/23/24/25
	34396-03-7	251-995-5	Isooctyltrimethoxysilane	20 - 30 %	-; R10-52/53

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. If breathing is irregular or stopped, administer artificial respiration and seek medical advice. In case of nausea seek medical advice.

KIVISIL Primer

Date 5.11.2009

Previous date: 3.10.2007

- 4.3 Skin contact**
Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Seek medical advice when necessary.
- 4.4 Eye contact**
Immediately irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.
- 4.5 Ingestion**
Give water to drink. Do not induce vomiting. If accidentally swallowed obtain immediate medical attention. In case of contact with water (also in gastro-intestinal tract) the product splits off methanol.

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**
Exclude sources of ignition. Avoid breathing vapours. Provide adequate ventilation. Avoid skin and eye contact with the product.
- 6.2 Environmental precautions**
Undiluted product is not allowed 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.

7. HANDLING AND STORAGE

- 7.1 Handling**
Keep away from sources of ignition. Take precautionary measures against static discharges. Provide adequate ventilation. Avoid contact with skin and eyes.
- 7.2 Storage**
Keep containers tightly closed. Store in a cool, dry, well ventilated place away from sources of heat and sources of ignition. Protect from frost and moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Exposure Limit Values**
- 8.1.1 Occupational exposure limit values**
- | | |
|---------------------|---------------|
| Acetic acid | 10 ppm (8 h) |
| Methanol | 200 ppm (8 h) |
| Tetraethyl silicate | 10 ppm (8 h) |
- 8.1.2 Information on limit values**
TLV-TWA = Threshold Limit Values - Time-weighted average / ACGIH 2009
- 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**
Avoid breathing of vapours. Use appropriate certified respirators with gas and dust filter if ventilation is insufficient. The use of motor driven respiratory equipment with gas and dust filter is recommended during the application on large surfaces.

KIVISIL Primer

Date 5.11.2009

Previous date: 3.10.2007

- 8.2.1.2 Hand protection**
Always wear protective gloves (e.g. butyl rubber).
- 8.2.1.3 Eye protection**
Safety eyewear must be used.
- 8.2.1.4 Skin and body protection**
Use suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 General Information (appearance, odour)**
Liquid
- 9.2 Important Health Safety and Environmental Information**
- 9.2.1 pH** about 7
- 9.2.2 Boiling point/range** -
- 9.2.3 Flash point** 25 °C
- 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** 1,00
- 9.2.9 Solubility**
- 9.2.9.1 Water solubility** Soluble

10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid**
Moisture.
- 10.2 Materials to avoid**
Reacts with water, alkaline and acid materials. Reaction causes the formation of methanol.
- 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**
Results based on tests with a similar material:
LD50 (oral, rat) > 2000 mg/kg
LD50 (dermal, rat) > 2000 mg/kg
LC50 (inhalation, rat, 4h) > 0,72 mg/l
- 11.2 Primary irritation**
Product contains polydimethyl siloxane and acetic acid. Risk of serious damage to eyes.
- 11.3 Sensitisation**

- 11.5 Human experience**
- 11.5.1 Inhalation
The breathing of vapours is irritating to the respiratory system and mucous membranes.
- 11.5.2 Skin contact
Irritates the skin and the eyes. Absorption through the skin is possible.
- 11.5.3 Other effects: -
- 11.6 Other information of acute toxicity**
Inhalation of spray may be harmful: the product hydrolyses forming methanol.
If swallowed, the product may hydrolyse in gastro-intestinal tract and produce methanol.

KIVISIL Primer

Date 5.11.2009

Previous date: 3.10.2007

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

Isooctyltrimethoxysilane: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.6 Other adverse effects

There is no data available on the preparation itself. Undiluted 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	1263
14.2	Packing group	III
14.3	Land transport	
14.3.1	ADR/RID Class	3
14.3.3	Description of the goods	paint related material
14.4	Sea transport	
14.4.1	IMDG Class	3
14.4.2	Proper shipping name	paint related material
14.4.3	Further Information	EmS: F-E,S-E
14.5	Air transport	
14.5.1	ICAO/IATA Class	3
14.5.2	Proper shipping name	paint related material

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

Polydimethyl siloxane
Isooctyltrimethoxysilane

15.1.3 R-phrases

R10 Flammable.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

15.1.4 S-phrases

S2 Keep out of the reach of children.
S23 Do not breathe vapour.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29 Do not empty into drains.
S37/39 Wear suitable gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well ventilated areas.

KIVISIL Primer

Date 5.11.2009

Previous date: 3.10.2007

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

R10	Flammable.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R11	Highly flammable.
R20	Harmful by inhalation.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R35	Causes severe burns.
R36/37	Irritating to eyes and respiratory system.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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

erik/ome