

TEMAZINC 99


Date 29.11.2011

Previous date: 1.12.2009

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

- 1.1 Product identifier**
- 1.1.1 Commercial Product Name**
TEMAZINC 99
- 1.1.2 Product code**
008 7400
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- 1.2.1 Recommended use**
Painting work.
Description: 2-component zinc rich epoxy paint, base part.
- 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
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 (Mon-Fri 8-16 Finnish time)

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
67/548/EEC - 1999/45/EC
Xi, N; R10-43-50/53
- 2.2 Label elements**
67/548/EEC - 1999/45/EC
- | | | |
|----|-------------------------------|---|
| Xi | Irritant |  |
| N | Dangerous for the environment | |
- R-phrases(s)**
- | | |
|--------|--|
| R10 | Flammable. |
| R43 | May cause sensitization by skin contact. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
- S-phrases(s)**
- | | |
|--------|---|
| S23 | Do not breathe vapour/spray. |
| S24 | Avoid contact with skin. |
| S36/37 | Wear suitable protective clothing and gloves. |
| S38 | In case of insufficient ventilation, wear suitable respiratory equipment. |
| S29 | Do not empty into drains. |
- Contains:**
Xylene, epoxy resin (mw 700-1000) and zinc powder
- 2.3 Other hazards**
Other hazards are not known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.2 Mixtures**

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Hazardous components		Chemical name of the substance	Concentration	Classification
CAS number	EINECS			
7440-66-6	231-175-3	Zinc powder (stabilized)	75 - 100 %	N; R50/53
1330-20-7	215-535-7	Xylene	5 - 10 %	Xn; R10-20/21-38
25036-25-3	-	Epoxy resin (mw 700-1000)	5 - 10 %	Xi; R36/38-43
1314-13-2	215-222-5	Zinc oxide	1 - 5 %	N; R50/53
100-41-4	202-849-4	Ethylbenzene	1 - 5 %	F, Xn; R11-20
107-98-2	203-539-1	1-Methoxy-2-propanol	1 - 5 %	-; R10-67

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. Inhalation of vapours may cause dizziness, headache and nausea.

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, CO₂, powders or water spray/mist.

5.1.2 Extinguishing media which must not be used for safety reasons

Do not use strong water jets.

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**

Vapours are heavier than air and may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Isolate from sources of heat, sparks and open flame. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. 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 away from sources of heat and direct sunlight. Keep away from sources of ignition. No smoking. Keep away from oxidising agents, from strongly alkaline and strongly acid materials. 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**

Xylene (TLV)	100 ppm (8 h)	150 ppm (15 min)
Ethylbenzene (TLV)	100 ppm (8 h)	125 ppm (15 min)
Zinc oxide (TLV)	2 mg/m ³ (8 h)	10 mg/m ³ (15 min)
Xylene (EU)	50 ppm (8 h)	100 ppm (15 min)
	Skin	
Ethylbenzene (EU)	100 ppm (8 h)	200 ppm (15 min)
	Skin	

8.1.2 Other information on limit values

TLV = Threshold Limit Values 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.

Skin = A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin.

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 solvent vapour below the OEL, suitable respiratory protection must be worn.

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 spray-application use respirators with gas, vapour and dust filter A/P3. During continuous and long-term work the use of motor-driven or air-fed respirators is recommended.

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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 and if there is any sign of damage to the glove material. 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.

When necessary, wear anti-static protective clothing made of natural fibre or of high temperature resistant synthetic fibre.

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

Grey paste, strong odour

9.1.6 Initial boiling point and boiling range 137 - 145 °C *)

9.1.7 Flash point 25 °C *)

9.1.10 Explosive properties

9.1.10.1 Lower explosion limit 1 vol-% *)

9.1.10.2 Upper explosion limit 7 vol-% *)

9.1.11 Vapour pressure 0,7 kPa (20 °C) *)

9.1.13 Relative density 3,45

9.1.14 Solubility(ies)

9.1.14.1 Water solubility Insoluble

9.2 Other information

Evaporation rate (BuAc=1) : 0,76 *)

*) = Xylene

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

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. May liberate flammable gases in contact with water.

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.

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11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

There are no toxicological test data available on the product itself.

11.1.1 Acute toxicity

See section 11.5.

11.1.3 Sensitisation

Based on the properties of the epoxy constituents and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies.

11.1.8 Other information on acute toxicity

Inhalation: Long term exposure to spray mist or solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Skin contact: Repeated or prolonged contact with the preparation causes removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Ingestion: Ingestion may cause nausea, diarrhoea and vomiting.

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

Zinc: LC50 = 0,8 mg/l, oncorhynchus mykiss, 96 h; very toxic. LC50 = 0,16 mg/l, daphnia magna, 48 h; very toxic.

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

12.2 Persistence and degradability**12.2.1 Biodegradation**

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

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

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14.1	UN number	1263
14.2	UN proper shipping name	paint
14.3	Transport hazard class(es)	3
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-E,S-E

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.

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.
	R11	Highly flammable.
	R20	Harmful by inhalation.
	R20/21	Harmful by inhalation and in contact with skin.
	R36/38	Irritating to eyes and skin.
	R38	Irritating to skin.
	R43	May cause sensitization by skin contact.
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R67	Vapours may cause drowsiness and dizziness.
16.8	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:
		Tikkurila Oyj, Product Safety, P.O. Box 53, FIN-01301 VANTAA, FINLAND,
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