

TEMABLAST EV 110

Date 25.3.2009

Previous date: 13.11.2006

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

- 1.1 Identification of the article**
1.1.1 Commercial Product Name
 TEMABLAST EV 110
- 1.1.2 Product code**
 008 7920, 008 7922
- 1.2 Use of the Substance/Preparation**
1.2.1 Intended use
 Painting work.
 Description: A two component epoxy shop primer, base part.
- 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 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

Highly flammable.

Harmful, Xn

Dangerous for the environment, N

Irritating to eyes and skin. May cause sensitization by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Vapours may cause drowsiness and dizziness. 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		3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
	3.1.1 CAS number	EINECS			
	108-88-3	203-625-9	Toluene	10 - 25 %	F, Xn; R11-38-48/20-63-65-67
	25036-25-3	-	Epoxy resin (mw 700-1000)	5 - 10 %	Xi; R36/38-43
	1330-20-7	215-535-7	Xylene	1 - 5 %	Xn; R10-20/21-38
	67-63-0	200-661-7	Isopropanol	5 - 10 %	F, Xi; R11-36-67
	67-64-1	200-662-2	Acetone	5 - 10 %	F, Xi; R11-36-66-67
	78-93-3	201-159-0	Methyl ethyl ketone	1 - 5 %	F, Xi; R11-36-66-67
	7779-90-0	231-994-3	Zinc phosphate	1 - 5 %	N; R50/53
	-	-	Epoxy resin (mw > 1000)	1 - 5 %	-
	64742-95-6	265-199-0	Solvent naphtha, light aromatic	< 1 %	Xn, N; R10-37-65-66-67-51/53

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, 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 breathing vapours. Exclude sources of ignition.
- 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**
Vapours are heavier than air and may form explosive mixtures with air. 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**
- | | |
|---------------------|---------------|
| Toluene | 20 ppm (8 h) |
| Xylene | 100 ppm (8 h) |
| Isopropanol | 200 ppm (8 h) |
| Acetone | 500 ppm (8 h) |
| Methyl ethyl ketone | 200 ppm (8 h) |
- 8.1.2 Information on limit values**
TLV-TWA = Threshold Limit Values - Time-weighted average / ACGIH 2008
- 8.2 Exposure controls**

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8.2.1 Occupational exposure controls

Provide adequate ventilation. Skin contact with the preparation and exposure to spray mist and vapour should be avoided, when handling products, which contain epoxy resin. 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.

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, strong odour.

9.2 Important Health Safety and Environmental Information

9.2.2 Boiling point/range	56 °C **)
9.2.3 Flash point	-18 °C **)
9.2.5 Explosive properties	
9.2.5.1 Lower explosion limit	1,2 vol-% *)
9.2.5.2 Upper explosion limit	7,1 vol-% *)
9.2.7 Vapour pressure	2,9 kPa (20 °C) *)
9.2.8 Relative density	1,3
9.2.9 Solubility	
9.2.9.1 Water solubility	Insoluble
9.2.11 Viscosity	flow time more than 30 sec / ISO 3 mm cup

9.3 Other data

Evaporation rate (BuAc=1) : 2,3 *)

*) = Toluene

***) = Acetone

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

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

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Exposure by inhalation and skin contact may cause sensitization. Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin and respiratory sensitizer and an irritant. It contains epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies.

11.5 Human experience

11.5.1 Inhalation: Solvent vapours and spray mist harmful if inhaled. Long term exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache and dizziness.

11.5.2 Skin contact: Repeated or prolonged contact with the preparation may cause removal of the natural fat from the skin resulting in contact dermatitis. Splashes in the eyes may cause irritation.

11.5.3 Other effects: Harmful if taken internally. The product contains toluene. Possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

Zinc phosphate: LC50(fish) = 0,14-2,6 mg Zn²⁺/l; EC50(48h, daphnia magna) = 0,04-0,86 mg Zn²⁺/l, EC50 (72h, algae) = 0,136-0,150 mg Zn²⁺/l

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 waste: 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	II
14.3	Land transport	
14.3.1	ADR/RID Class	3
14.3.3	Description of the goods	paint
14.4	Sea transport	
14.4.1	IMDG Class	3
14.4.2	Proper shipping name	paint
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

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**

F	Highly flammable
Xn	Harmful
N	Dangerous for the environment

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15.1.2 Names of the ingredients given on the warning label

Toluene
Epoxy resin (mw 700-1000)
Zinc phosphate
Acetone

15.1.3 R-phrases(s)

R11 Highly flammable.
R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child.
R67 Vapours may cause drowsiness and dizziness.

15.1.4 S-phrases(s)

S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour/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.
S33 Take precautionary measures against static discharges.
S36/37 Wear suitable protective clothing and gloves.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.

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

R11 Highly flammable.
R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child.
R67 Vapours may cause drowsiness and dizziness.
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

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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