

**TEMACOAT GPL**

Date 29.5.2008

Previous date: 15.11.2005

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

**1.1.1 Commercial Product Name**  
TEMACOAT GPL

**1.1.2 Product code**  
170 -series

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

Painting work.

Description: A two component amine adduct cured epoxy finish, 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**

Flammable.

Irritant; Xi

May cause sensitization by skin contact. Irritating to eyes and skin. Vapours may cause drowsiness and dizziness. 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**

<b>3.1.1 CAS number</b>	<b>EINECS</b>	<b>3.1.2 Chemical name of the substance</b>	<b>3.1.3 Concentration</b>	<b>3.1.4 Classification</b>
1330-20-7	215-535-7	Xylene	5 - 10 %	Xn; R10-20/21-38
64742-95-6	265-199-0	Solvent naphtha, light aromatic	10 - 20 %	Xn, N; R10-37-65-66-67-51/53
25036-25-3	-	Epoxy resin (mw < 700)	25 - 50 %	Xi; R36/38-43
78-83-1	201-148-0	Iso-butanol	1 - 10 %	Xi; R10-37/38-41-67
68002-19-7	-	Ureaformaldehyde resin, butylated	1 - 5 %	-; R53
100-41-4	202-849-4	Ethylbenzene	1 - 5 %	F, Xn; R11-20
14808-60-7	238-878-4	Quartz	1 - 5 %	Xn; R48/20

**4. FIRST AID MEASURES****4.1 Additional advice**

In all cases of doubt, or when symptoms persist, seek medical attention.

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- 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, CO<sub>2</sub>, 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. 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**  
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. Avoid skin and eye contact.
- 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**
- |              |               |
|--------------|---------------|
| Xylene       | 100 ppm (8 h) |
| Ethylbenzene | 100 ppm (8 h) |
| Iso-butanol  | 50 ppm (8 h)  |
- 8.1.2 Information on limit values**  
TLV-TWA = Threshold Limit Values - Time-weighted average / ACGIH 2007
- 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**

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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** 137 - 145 °C \*)

**9.2.3 Flash point** 25 °C \*)

**9.2.5 Explosive properties**

**9.2.5.1 Lower explosion limit** 1 vol-% \*)

**9.2.5.2 Upper explosion limit** 7 vol-% \*)

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

**9.2.8 Relative density** 1,4 - 1,5

**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) : 0,76 \*)

\*) = Xylene

**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**

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**

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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.

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

Solvent naphtha, light aromatic: LC50 = 1-10 mg/l, fish, crustacean, algae (estimate); toxic

**12.3 Persistence and degradability****12.3.1 Biodegradation**

Solvent naphtha, light aromatic: 78 %, 28 d; readily biodegradable

**12.4 Bioaccumulative potential**

Solvent naphtha, light aromatic: octanol/water partition coefficient log Pow = 3,7-4,5 (estimate)

**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**

<b>14.1</b>	<b>UN No</b>	1263
<b>14.2</b>	<b>Packing group</b>	III
<b>14.3</b>	<b>Land transport</b>	
<b>14.3.1</b>	<b>ADR/RID Class</b>	3
<b>14.3.3</b>	<b>Description of the goods</b>	paint
<b>14.3.4</b>	<b>Further Information</b>	Drums/vessels < 450 litres: not subject to ADR because of high viscosity
<b>14.4</b>	<b>Sea transport</b>	
<b>14.4.1</b>	<b>IMDG Class</b>	3
<b>14.4.2</b>	<b>Proper shipping name</b>	paint
<b>14.4.3</b>	<b>Further Information</b>	EmS: F-E,S-E Drums/vessels < 30 litres: Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.
<b>14.5</b>	<b>Air transport</b>	
<b>14.5.1</b>	<b>ICAO/IATA Class</b>	3
<b>14.5.2</b>	<b>Proper shipping name</b>	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**

Xi Irritant

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**15.1.2 Names of the ingredients given on the warning label**

Solvent naphtha, light aromatic

Iso-butanol

Epoxy resin (mw &lt; 700)

**15.1.3 R-phrases(s)**

R10

Flammable.

R36/38

Irritating to eyes and skin.

R43

May cause sensitization by skin contact.

R52/53

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

R67

Vapours may cause drowsiness and dizziness.

**15.1.4 S-phrases(s)**

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.

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.

R20

Harmful by inhalation.

R48/20

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

R10

Flammable.

R36/38

Irritating to eyes and skin.

R43

May cause sensitization by skin contact.

R52/53

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

R67

Vapours may cause drowsiness and dizziness.

R20/21

Harmful by inhalation and in contact with skin.

R37

Irritating to respiratory system.

R37/38

Irritating to respiratory system and skin.

R38

Irritating to skin.

R41

Risk of serious damage to eyes.

R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53

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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