

**SAFETY DATA SHEET****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****1.1 Identification of the substance or preparation****Trade name**

TEMACOAT GPL-S PRIMER (former Reapox GPL-S primer)

**Product code**

179-series

**1.2 Use of the substance/preparation****1.2.1 Expressed in writing**

Painting work

Description: A two component, polyamide-cured epoxy primer, base part.

**1.2.2 Standard industrial classification****1.2.3 Code for the purpose of use****1.3 Company/undertaking identification****1.3.1 Manufacturer, importer, supplier**

Tikkurila Coatings Oy

**1.3.2 Contact information****Post-office box**

P.O. Box 53

**Postcode and post office**

FIN-01301 VANTAA, FINLAND

**Telephone**

+358 9 857 741

**Telefax**

+358 9 8577 6911

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

Tikkurila Oy, Environment and Safety: +358 9 857 721

**2. COMPOSITION/INFORMATION ON INGREDIENTS****2.1 Hazardous components**

<b>2.1.1 CAS number or other code</b>	<b>2.1.2 Name of the ingredient</b>	<b>2.1.3 Concentration</b>	<b>2.1.4 Warning symbol, R phrases and other data on the ingredient</b>
1330-20-7	Xylene	10 - 25 %	Xn; R10-20/21-38 100 ppm (TLV-TWA)
25068-38-6	Epoxy resin (mw 700-1000)	10 - 25 %	Xi; R36/38-43
64742-95-6	Solvent naphtha, light aromatic	10 - 25 %	Xn, N; R10-37-65-66-67-51/53
1320-67-8	1-methoxy-2-propanol	1 - 5 %	-; R10 100 ppm (TLV-TWA)

**2.1.7 Further information**

TLV = Threshold Limit Values / ACGIH 2001

**3. HAZARDS IDENTIFICATION**

Flammable.

Irritant; Xi

May cause sensitization by skin contact. Irritating to skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information on hazard labelling in section 15.1.

**4. FIRST AID MEASURES****4.1 Special instructions**

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, CO<sub>2</sub>, powder or water spray.

**5.2 Extinguishing media which must not be used for safety reasons**

Waterjet

**5.3 Special exposure hazards in a fire**

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****8.2 Exposure controls****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 during spray-application.

#### 8.2.1.4 Skin and body protection

Protective clothing must be used during spray-application.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General Information (physical state, colour and odour)

Coloured, viscous liquid, strong odour.

### 9.2 Important health, safety and environmental information

9.2.2 Boiling point/boiling range 137 - 143 °C \*)

9.2.3 Flash point 25 °C \*)

### 9.2.5 Explosive properties

9.2.5.1 Lower explosion limit 1,1

9.2.5.2 Upper explosion limit - 7,0 vol-% \*)

9.2.7 Vapour pressure 1,3 kPa (20 °C) \*)

9.2.8 Relative density 1,42 - 1,48

### 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 information

Evaporation rate (BuAc=1) :0,75 \*)

\*) = 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 Irritancy and corrosiveness

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 Empirical data on effects on humans

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 Biological degradability

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)

### 12.5 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	<b>UN number</b>	1263
14.2	<b>Packing group</b>	III
14.3	<b>Land transport</b>	
14.3.1	<b>Transport class</b>	3
14.3.3	<b>Name according to bill of freight</b>	paint
14.3.4	<b>Further Information</b>	Drums/vessels < 450 litres: not subject to ADR because of high viscosity
14.4	<b>Sea transport</b>	
14.4.1	<b>IMDG Class</b>	3
14.4.2	<b>Proper shipping name</b>	paint
14.4.2.2	<b>EmS</b>	3-05
14.4.3	<b>Further information</b>	Drums/vessels < 30 litres: Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

## 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

Xylene  
Solvent naphtha, light aromatic  
Epoxy resin (mw 700-1000)

#### 15.1.3 R phrases

R10 Flammable.  
R38 Irritating to skin.  
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

S23	Do not breathe vapour/spray.
S24	Avoid contact with the skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29	Do not empty into drains.
S37	Wear suitable gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.

## 16. OTHER INFORMATION

### 16.1 List of relevant R phrases

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R51/53	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.
R67	Vapours may cause drowsiness and dizziness.

### 16.4 Further 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 Services Oy, Product Safety,

P.O. Box 53, FIN-01301 VANTAA, FINLAND, Telephone +358 9 857 721, Fax +358 9 8577 6936

**Date**

**Signature**      a/ome