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

Trade name: MAPECOAT W SP comp. A
Product type and use: Water dispersion synthetic resin based paint
Supplier:
MAPEI Far East Pte Ltd
28, Tuas West Road - 638383 Singapore
Phone: +65-68623488

Emergency telephone number of the company and/or of an authorised advisory centre:
MAPEI Far East Pte Ltd: Phone: +65-68623488
MAPEI S.p.A. - Tel. +(39)02376731

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:
3% - 5% epoxy resin (number average molecular weight <= 700)
Xi,N; R36/38 - 43 - 51 - 53

1% - 3% phenol-formaldehyde polymer, glycidyl ether
CAS: 28064-14-4
Xi,N; R36/38-43-51-53

0.5% - 1% 2-ethylhexylglycidylether
CAS: 2461-15-6 EINECS: 219-553-6
Xi,N; R36/38-43-51-53

3. HAZARDS IDENTIFICATION

If brought into contact with the skin, the product may cause sensitisation of the skin. This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Contact with skin:
Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:
Wash immediately with water for at least 10 minutes.

Swallowing:
Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet.
A suspension of activated charcoal in water, or liquid petrolatum may be administered.

Inhalation:
Ventilate the premises.

5. FIRE-FIGHTING MEASURES

The product does not present a fire hazard

Extinguishers not to be used:
None in particular.

Risks arising from combustion:
The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.
In case of incomplete combustion or pyrolysis, phenolic oxide and/or carbonic oxide can be formed. Avoid inhaling the fumes. 

**Protective equipment:**
Use protection for the airways.

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### 6. ACCIDENTAL RELEASE MEASURES

**Measures for personal safety:**
Use a mask, gloves and protective clothing.

**Environmental measures:**
Limit leakages with earth or sand. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

**Cleaning methods:**
Rapidly recover the product. To do so, wear protective clothing. If the product is in a liquid form, stop it from entering the drainage system. Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material. After the product has been recovered, rinse the area and materials involved with water.

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### 7. HANDLING AND STORAGE

**Handling precautions:**
Avoid contact with skin and eyes.

**Incompatible materials:**
None in particular.

**Storage conditions:**
Store above 5°C.

**Instructions as regards storage premises:**
Adequately ventilated premises.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Precautionary measures:**
Give adequate ventilation to the premises where the product is stored and/or handled.

**Respiratory protection:**
Not needed for normal use.

**Protection for hands:**
Use protective rubber gloves. The use of LLPDE (0.06 mm), nitrile (0.4) or butyl (0.5 mm) gloves is suggested. Latex gloves are not recommended.

**Eye protection:**
Not needed for normal use.

**Protection for skin:**
Use clothing that provides comprehensive protection to the skin. All the individual protection devices must be consistent to CE relevant standards (as EN 374 for gloves and EN 166 for goggles), maintained efficient and stored in an appropriate way. The life of the protection devices against the chemical agents depends on various factors (the way they are used, climatic factors and storage conditions), that can remarkably reduce also the life foreseen by CE standards. The consultation of the supplier of the protection devices is always recommended. The education of the worker to the use of the equipment devices is mandatory.

**Exposure limit value of single components:**
none

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**
liquid

**Colour:**
white

**Odour:**
typical

**pH:**
9
Safety Data Sheet
MAPECOAT W SP comp. A

Boiling point: 100 °C
Flash point: == °C
Autoignition temperature: == °C
Explosion limits (by volume): ==
Relative density: 1.53 g/cm³ (23°C)
Solubility in water: dispersible
Lipid solubility: insoluble
Viscosity: 10500-12000 mPa.s (23°C)

10. STABILITY AND REACTIVITY
Conditions to avoid:
Stable under normal conditions.
It may catch fire on contact with powerful oxidising agents.

11. TOXICOLOGICAL INFORMATION
Route(s) of entry:
Ingestion: Yes
Inhalation: Yes
Contact: Yes

Toxicological information related to the product:
No toxicological data are available at the moment on the product itself.
The concentration of each substance should be borne in mind in assessing the toxological
effects deriving from the preparation.
The product does not contain toxicologically relevant substances.

Corrosive/Irritating Properties:
Skin:
The product can cause a temporary irritation by prolonged contact.
Eye:
The product can cause a temporary irritation by contact.

Sensitizing Properties:
Frequent contact may cause sensitization.

Cancerogenic Effects:
No effects are known.

Mutagenic Effects:
No effects are known.

Teratogenic Effects:
No effects are known.

Additional Information:
Liquid epoxy resin contained in this material causes only minor skin irritation. However, all epoxy
resins are capable of causing sensitizing of the skin.
Susceptibility to skin irritation and sensitization varies from person to person.
In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of
frequent and prolonged contact.
Therefore, even though the skin irritation potential is slight, skin contact should be avoided. Once
sensitization has occurred, exposure of the skin to very small quantities of the material may cause
erythema and edema.

12. ECOLOGICAL INFORMATION
Biodegradability: no data available on the preparation.
Adopt good industrial practices, so that the product is not released into the environment.

List of environmentally dangerous substances contained in this preparation and their classification:
3% - 5% epoxy resin (number average molecular weight <= 700)
  R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
  environment.
1% - 3% phenol-formaldehyde polymer, glycidyl ether
### 13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal of hardened product (EC waste code)</td>
<td>080410</td>
</tr>
<tr>
<td>Disposal of not hardened product (EC waste code)</td>
<td>080409</td>
</tr>
</tbody>
</table>

The suggested European waste code is just based on the composition of the product. According to the specific process or application field a different waste code may be necessary.

### 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Mode of Transport</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rail/Road (RID/ADR)</td>
<td>no dangerous good</td>
</tr>
<tr>
<td>Sea (IMO/IMDG)</td>
<td>no dangerous good</td>
</tr>
<tr>
<td>MAR/POL 73/78, Annex III</td>
<td>No</td>
</tr>
<tr>
<td>Air (ICAO/IATA)</td>
<td>no dangerous good</td>
</tr>
</tbody>
</table>

### 15. REGULATORY INFORMATION

- Commission Directive 1999/45/CE (Classification, packaging and labelling of dangerous preparation) and subsequent amendments.

**Symbols:**

- Xi Irritant

**R Phrases:**

- R43 May cause sensitization by skin contact.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrases:**

- S24 Avoid contact with skin.
- S37 Wear suitable gloves.
- S60 This material and its container must be disposed of as hazardous waste.

**Contents:**

- epoxy resin (number average molecular weight <= 700)
- phenol-formaldehyde polymer, glycidyl ether

**Special Provisions:**

- Contains epoxy constituents. See information supplied by the manufacturer.

### 16. OTHER INFORMATION

Main bibliographic sources:

- NIOSH - Registry of toxic effects of chemical substances (1983)
- Istituto Superiore di Sanità - Schede tossicologiche di solventi organici utilizzati in cicli tecnologici industriali (1985)
- Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- ACGIH - Threshold Limit Values (TLV)
- SAX'S - Dangerous properties of industrial materials - Tenth Edition
The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release.

Text of R phrases referred to under heading 2:
- R35 Causes severe burns.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitization by skin contact.
- R51 Toxic to aquatic organisms.
- 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.

Paragraphs modified from the previous revision:

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
2. COMPOSITION/INFORMATION ON INGREDIENTS
3. HAZARDS IDENTIFICATION
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
15. REGULATORY INFORMATION
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
   Trade name: MAPECOAT W SP GRIGIO N°10 parte B
   Product type and use: Water dispersion synthetic resin based paint
   Supplier: MAPEI Far East Pte Ltd
   28, Tuas West Road - 638383 Singapore
   Phone: +65 - 68623488
   Emergency telephone number of the company and/or of an authorised advisory centre:
   MAPEI Far East Pte Ltd: Phone: +65-68623488
   Competent person responsible for the safety data sheet:
   sicurezza@mapei.it

2. HAZARDS IDENTIFICATION
   No specific hazards are encountered under normal product use.

3. COMPOSITION/INFORMATION ON INGREDIENTS
   Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:
   1% - 3% epoxyaminic adduct based polymer
   EC: polymer
   Xi: R41

4. FIRST AID MEASURES
   Contact with skin:
   Wash with plenty of water and soap.
   Contact with eyes:
   Wash immediately with water for at least 10 minutes.
   Swallowing:
   Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.
   Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present
   this safety-data sheet.
   A suspension of activated charcoal in water, or petroleum jelly may be administered.
   Inhalation:
   Ventilate the premises.

5. FIRE-FIGHTING MEASURES
   The product does not present a fire hazard
   Extinguishers not to be used:
   None in particular.
   Risks arising from combustion:
   The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.
   Avoid inhaling the fumes.
   Protective equipment:
   Use protection for the airways.

6. ACCIDENTAL RELEASE MEASURES
   Measures for personal safety:
   None in particular.
   Use gloves and protective clothing.
   Environmental measures:
   Limit leakages with earth or sand.
   Cleaning methods:
   If the product is in a liquid form, stop it from entering the drainage system.
   Recover the product for re-use if possible, or for disposal. The product might, where appropriate, be absorbed by
   inert material.
   After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE
   Handling precautions:
   Avoid contact with skin and eyes.
   Incompatible materials:
   None in particular.
   Storage conditions:
   Store above 5°C.
   Instructions as regards storage premises:
   Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
   Precautionary measures:
   Respiratory protection:
   Not needed for normal use.
   In case of insufficient ventilation use mask with AK2 filters (EN 141).
   Protection for hands:
Not needed for normal use.

Eye protection:
Not needed for normal use.

Protection for skin:
No special precaution must be adopted for normal use.

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Exposure limit value of single components:
None.

Carry out the control of the concentrations of the substances with exposure limits assigned, in the working place according to local dispositions.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>grey</td>
</tr>
<tr>
<td>Odour</td>
<td>ammonia</td>
</tr>
<tr>
<td>pH</td>
<td>10</td>
</tr>
<tr>
<td>Melting point</td>
<td>N.A.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>== °C</td>
</tr>
<tr>
<td>Solid/gas flammability</td>
<td>N.A.</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>== °C</td>
</tr>
<tr>
<td>Explosion limits(by volume)</td>
<td>==</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>N.A.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>N.A.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.53 g/cm³ (23°C)</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>dispersible</td>
</tr>
<tr>
<td>Lipid solubility</td>
<td>insoluble</td>
</tr>
<tr>
<td>Viscosity</td>
<td>5500-6500 mPa.s (23°C)</td>
</tr>
<tr>
<td>Vapour density (air=1)</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Conditions to avoid:
Stable under normal conditions.

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth) and powerful reducing agents.

It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents.

It may catch fire on contact with powerful oxidising agents.

11. TOXICOLOGICAL INFORMATION

Route(s) of entry:
Ingestion: Yes
Inhalation: Yes
Contact: Yes

Toxicological information related to the product:
No toxicological data are available at the moment on the product itself.

The concentration of each substance should be borne in mind in assessing the toxological effects deriving from the preparation.

The product does not contain toxicologically relevant substances.

Corrosive/Irritating Properties:
Eye:
The product can cause a temporary irritation by contact.

Sensitizing Properties:
No effects are known.

Cancerogenic Effects:
No effects are known.

Mutagenic Effects:
No effects are known.

Teratogenic Effects:
No effects are known.

12. ECOLOGICAL INFORMATION

Biodegradability: no data available on the preparation.

Aquatic toxicity: the preparation is not to be considered toxic to the aquatic environment based on components.

LC50=100mg/l - aquatic species (calculated data following 1999/45/EC Directive).

Adopt good industrial practices, so that the product is not released into the environment.

13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.
Where applicable, refer to the following regulatory provisions: 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of not hardened product (EC waste code): 080409

The suggested European waste code is just based on the composition of the product.
According to the specific process or application field a different waste code may be necessary.

14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION


Special Provisions:
Safety data sheet available for professional user on request.

16. OTHER INFORMATION

Main bibliographic sources:
- NIOSH - Registry of toxic effects of chemical substances (1983)
- Istituto Superiore di Sanità - Schede tossicologiche di solventi organici utilizzati in cicli tecnologici industriali (1985)
- Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- ACGIH - Threshold Limit Values - 2004 edition
- SAX'S - Dangerous properties of industrial materials - Tenth Edition

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Text of R phrases referred to under heading 3:
- R41 Risk of serious damage to eyes.