## 1. Identification of the substance/mixture and of the company/undertaking

<table>
<thead>
<tr>
<th>Product:</th>
<th>Epiprime ZCPG Primer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limitations of Use:</td>
<td>For Professional use only.</td>
</tr>
<tr>
<td>Product No:</td>
<td>6711</td>
</tr>
<tr>
<td>Company:</td>
<td>HMG COATINGS SOUTH LTD</td>
</tr>
</tbody>
</table>

HMG COATINGS SOUTH LTD  
Faraday Park  
West Portway Ind Est  
Andover  
Hants  
SP10 3SA  

**Telephone:** 01264 356296  
**Fax:** 01264 338123  
**Web:** www.hmgcoatings.com

## 2. Hazards identification

### Classification of the substance or mixture

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>Toxic</td>
</tr>
<tr>
<td>R45</td>
<td>May cause cancer.</td>
</tr>
<tr>
<td>Xn</td>
<td>Harmful</td>
</tr>
<tr>
<td>R20/21</td>
<td>Harmful by inhalation and in contact with skin.</td>
</tr>
<tr>
<td>Xi</td>
<td>Irritant</td>
</tr>
<tr>
<td>R36/38</td>
<td>Irritating to eyes and skin.</td>
</tr>
<tr>
<td>Xi</td>
<td>Sensitising</td>
</tr>
<tr>
<td>R43</td>
<td>May cause sensitisation by skin contact.</td>
</tr>
<tr>
<td>N</td>
<td>Dangerous for the environment</td>
</tr>
<tr>
<td>R51/53</td>
<td>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</td>
</tr>
<tr>
<td>R10</td>
<td>Flammable.</td>
</tr>
</tbody>
</table>

### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>Xylene (mix)</td>
</tr>
</tbody>
</table>

### Label elements

**Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**Code letter and hazard designation of product:**  
T Toxic  
N Dangerous for the environment

### Hazard-determining components of labelling:

- **reaction product:** bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)  
- **Zinc Potassium Chromate**  
- **Xylene (mix)**

### Risk phrases:

- 45 May cause cancer.  
- 10 Flammable.  
- 20/21 Also harmful by inhalation and in contact with skin.  
- 36/38 Irritating to eyes and skin.  
- 43 May cause sensitisation by skin contact.  
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
**PRODUCT NAME**

Epiprime ZCPG Primer

Material Safety Datasheet

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**Safety phrases:**

53 Avoid exposure - obtain special instructions before use.
7/9 Keep container tightly closed and in a well-ventilated place.
14 Keep away from reducing agents, heavy metal compounds, acids and alkalis.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
57 Use appropriate container to avoid environmental contamination.

**Special labelling of certain preparations:**
Contains epoxy constituents. See information supplied by the manufacturer.

**Other hazards**

**Results of PBT and vPvB assessment**

PBT: Not applicable.
vPvB: Not applicable.

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### 3. Composition/information on ingredients

**Chemical characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS Where Applicable</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>Xylene (mix)</td>
<td>25-50%</td>
</tr>
<tr>
<td>25068-38-6</td>
<td>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin 10-25%</td>
<td></td>
<td>10-25%</td>
</tr>
<tr>
<td>7779-90-0</td>
<td>trizinc bis(orthophosphate)</td>
<td></td>
<td>10-25%</td>
</tr>
<tr>
<td>78-83-1</td>
<td>butanol</td>
<td></td>
<td>2.5-10%</td>
</tr>
<tr>
<td>201-148-0</td>
<td>Zinc Potassium Chromate</td>
<td></td>
<td>2.5-10%</td>
</tr>
<tr>
<td></td>
<td>Micronised wax</td>
<td></td>
<td>≤2.5%</td>
</tr>
</tbody>
</table>

**Additional information:** For the wording of the listed risk phrases refer to section 16.

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### 4. First aid measures

**Description of first aid measures**

**General information:**
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**
 Supply fresh air and call for a doctor.
 In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**
 Most important symptoms and effects, both acute and delayed  No further relevant information available.
 Indication of any immediate medical attention and special treatment needed
 No further relevant information available.
5. Firefighting measures

Extinguishing media
Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet
Special hazards arising from the substance or mixture No further relevant information available.
Advice for firefighters
Protective equipment: Mount respiratory protective device.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information

7. Handling and storage

Handling:
Precautions for safe handling
Keep receptacles tightly sealed.
Ensure good ventilation/extraction at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges
Keep respiratory protective device available.
Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility:
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
Further information about storage conditions: Keep receptacle tightly sealed.
Specific end use(s) No further relevant information available.
8. Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

**Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**1330-20-7 Xylene (mix)**
- WEL: Short-term value: 441 mg/m³, 100 ppm
- WEL: Long-term value: 220 mg/m³, 50 ppm
- Sk; BMGV

**78-83-1 butanol**
- WEL: Short-term value: 231 mg/m³, 75 ppm
- WEL: Long-term value: 154 mg/m³, 50 ppm

**Additional information:** The lists valid during the making were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

**Respiratory protection:** When spraying the product, use a respiratory protective device.

**Protection of hands:**
- When skin exposure may occur, advice should be sought from the glove supplier on appropriate types and usage times for this product.

**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation**

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**
  - Tightly sealed goggles

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**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**
- Fluid

**Form:**
- According to product specification

**Colour:**
- Characteristic

**Odour:**
- Not determined.

**Odour threshold:**
- Not determined.

**pH-value:**
- Not determined.

**Change in condition**

**Melting point/Melting range:**
- Undetermined.

**Boiling point/Boiling range:**
- 108°C

**Flash point:**
- 25°C

**Flammability (solid, gaseous):**
- Not applicable.

**Ignition temperature:**
- 390°C

**Decomposition temperature:**
- Not determined.
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10. Stability and reactivity

Reactivity
Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions No dangerous reactions known.
Conditions to avoid No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Information on toxicological effects
Acute toxicity:
LD/LC50 values relevant for classification:

1330-20-7 Xylene (mix)
Oral LD50 8700 mg/kg (rat)
Dermal LD50 2000 mg/kg (rbt)
Inhalative LC50/4 h 6350 mg/l (rat)

7779-90-0 trizinc bis(orthophosphate)
Oral LD50 >5000 mg/kg (rat)

Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.
Sensitization: Sensitization possible through skin contact.

Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
### 12. Ecological information

**Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.

**Behaviour in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.

**Ecotoxicological effects:**
- **Remark:** Toxic for fish

**Additional ecological information:**
- **General notes:**
  - Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water
  - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  - Danger to drinking water if even extremely small quantities leak into the ground.
  - Also poisonous for fish and plankton in water bodies.
  - Toxic for aquatic organisms

**Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**Other adverse effects**
- No further relevant information available

### 13. Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14. Transport information

- **UN-Number:** UN1263
- **ADR, IMDG, IATA:**
  - **UN proper shipping name ADR:** 1 2 6 3 PAINT *(not viscous)*, ENVIRONMENTALLY HAZARDOUS PAINT

- **Transport hazard class(es)**
  - **ADR:**
    - **Class:** 3 Flammable liquids.
    - **Label:** 3
  - **IMDG, IATA:**
    - **Class:** 3 Flammable liquids.
    - **Label:** 3

- **Packing group**
  - **ADR, IMDG, IATA:** III

- **Environmental hazards:**
- **Marine pollutant:** No

- **Special marking (ADR):** Symbol (fish and tree)

- **Special precautions for user**
  - **Warning:** Flammable liquids.
15. Regulatory information (Supply and Labelling)

Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations:
Technical instructions (air):
Class Share in %
NK   34.5
Waterhazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
R10 Flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R45 May cause cancer.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.
R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Product safety department: LABORATORY
Contact: Health & Safety Officer