SECTION 1: Identification of the substance/mixture and of the company/undertaking

For professional use only

1.1 Product identifier For professional use only

Trade name: Cellulose APS1 Primer

Article number: 3304

1.2 Relevant identified uses of the substance or mixture and uses advised against Surface Coating

Surface Coating

1.3 Details of the supplier of the safety data sheet

Supplier: HMG PAINTS LIMITED

RIVERSIDE WORKS, COLLYHURST ROAD,

MANCHESTER. M40 7RU

UNITED KINGDOM

TEL: +44 (0)161 205 7631

EMAIL: sales@hmgpaint.com

Further information obtainable from: LABORATORY

1.4 Emergency telephone number: +44 (0)161 205 7631 (Business hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1 Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms GHS02, GHS07, GHS08

(Contd. on page 2)
Signal word: Danger

Hazard-determining components of labelling:
- toluene
- reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

Hazard statements:
- Highly flammable liquid and vapour.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- Suspected of damaging the unborn child.
- May cause damage to organs through prolonged or repeated exposure.
- Harmful to aquatic life with long lasting effects.

Precautionary statements:
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
- Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description:
Mixture of substances listed below with nonhazardous additions.

Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Substance</th>
<th>Hazard Classifications</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>203-625-9</td>
<td>toluene</td>
<td>Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1; H304; Skin Irrit. 2, H315; STOT SE 3, H336</td>
<td>10-25%</td>
</tr>
<tr>
<td>64-17-5</td>
<td>200-578-6</td>
<td>ethanol</td>
<td>Flam. Liq. 2, H225</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>9004-70-0</td>
<td></td>
<td>Nitrocellulose (12.3% N)</td>
<td>Flam. Sol. 1, H228</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>123-86-4</td>
<td>204-658-1</td>
<td>Butyl ethanoate</td>
<td>Flam. Liq. 3, H226; STOT SE 3, H336</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>67-63-0</td>
<td>200-667-7</td>
<td>propan-2-ol</td>
<td>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>67-64-1</td>
<td>200-662-2</td>
<td>propan-2-one</td>
<td>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>25068-38-6</td>
<td></td>
<td>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin</td>
<td>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>Xylene (mix)</td>
<td>Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>
**Trade name:** Cellulose APS1 Primer

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Substance</th>
<th>Community Workplace Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>28553-12-0</td>
<td>249-079-5</td>
<td>di-iso nonyl phthalate</td>
<td>≤ 2.5%</td>
</tr>
<tr>
<td>78-83-1</td>
<td>201-148-0</td>
<td>Isobutanol</td>
<td>≤ 2.5%</td>
</tr>
<tr>
<td>141-78-6</td>
<td>205-500-4</td>
<td>Ethyl Acetate</td>
<td>≤ 2.5%</td>
</tr>
<tr>
<td>67-56-1</td>
<td>200-659-6</td>
<td>Methanol</td>
<td>≤ 2.5%</td>
</tr>
</tbody>
</table>

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

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
  - **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.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 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

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

- **5.3 Advice for firefighters**
  - Protective equipment: Put on breathing apparatus

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:**
  - Prevent seepage into sewage system, workpits and cellars.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to enter sewage surface or ground water.

- **6.3 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.

- **6.4 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.
SECTION 7: Handling and storage

· 7.1 Precautions for safe handling
  Keep receptacles tightly sealed.
  Ensure good ventilation/extraction at the workplace.
  Prevent formation of aerosols.

· Information about fire - and explosion protection:
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

  · Storage:
  · Requirements to be met by storerooms and receptacles: Store in a cool location.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions:
  · Keep receptacle tightly sealed.
  · Store in cool, dry conditions in well sealed receptacles.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· 8.1 Control parameters

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>WEL</th>
<th>Short-term value</th>
<th>Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td></td>
<td>384 mg/m³, 100 ppm</td>
<td>191 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>64-17-5 ethanol</td>
<td></td>
<td>1920 mg/m³, 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>123-86-4 Butyl ethanoate</td>
<td></td>
<td>966 mg/m³, 200 ppm</td>
<td>724 mg/m³, 150 ppm</td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td></td>
<td>1250 mg/m³, 500 ppm</td>
<td>999 mg/m³, 400 ppm</td>
</tr>
<tr>
<td>67-64-1 propan-2-one</td>
<td></td>
<td>3620 mg/m³, 1500 ppm</td>
<td>1210 mg/m³, 500 ppm</td>
</tr>
<tr>
<td>1330-20-7 Xylene (mix)</td>
<td></td>
<td>441 mg/m³, 100 ppm</td>
<td>220 mg/m³, 50 ppm Sk: BMGV</td>
</tr>
<tr>
<td>28553-12-0 di-iso nonyl phthalate</td>
<td></td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>78-83-1 isobutanol</td>
<td></td>
<td>231 mg/m³, 75 ppm</td>
<td>154 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>141-78-6 Ethyl Acetate</td>
<td></td>
<td>400 ppm</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

(Contd. on page 5)
8.2 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.
  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 can not 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

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Fluid</td>
</tr>
<tr>
<td>Colour</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>78 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>4 °C</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
Trade name: Cellulose APS1 Primer

- Ignition temperature: 370 °C
- Decomposition temperature: Not determined.
- Self-igniting: Product is not self-igniting.
- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Explosion limits:
  Lower: 1.2 Vol %
  Upper: 7.0 Vol %
- Vapour pressure at 20 °C: 29 hPa
- Density at 20 °C: 1,202 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: NOT MISCIBLE
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.
- Solvent content:
  Organic solvents: 47.2 %
  Water: 0.1 %
- Solids content: 41.5 %
- 9.2 Other information
  No further relevant information available.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

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

  | 108-88-3 toluene | Oral | LD50 | 5000 mg/kg (rat) |
  | Dermal | LD50 | 12124 mg/kg (rab) |
  | Inhalative | LC50/4 h | 5320 mg/l (mus) |
- Primary irritant effect:
- Skin corrosion/irritation Irritant to skin and mucous membranes.
- Serious eye damage/irritation Irritating effect.
- Respiratory or skin sensitisation Sensitisation possible through skin contact.

(Contd. on page 7)
SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
  - Remark: Harmful to fish
- Additional ecological information:
  - General notes:
    Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Danger to drinking water if even small quantities leak into the ground.
    Harmful to aquatic organisms
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 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.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, IMDG, IATA UN1263
- 14.2 UN proper shipping name
  - ADR 1263 PAINT (vapour pressure at 50 °C not more than 110 kPa)
  - IMDG, IATA PAINT
- 14.3 Transport hazard class(es)
  - ADR, IMDG, IATA
    - Class 3 Flammable liquids.
    - Label 3
Trade name: Cellulose APS1 Primer

- 14.4 Packing group
  - ADR, IMDG, IATA
  - II

- 14.5 Environmental hazards:
  - Marine pollutant:
  - No

- 14.6 Special precautions for user
  - Warning: Flammable liquids.
  - Danger code (Kemler): 30
  - EMS Number: F-E-S-C

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - ADR
  - Limited quantities (LQ): 5L
  - Excepted quantities (EQ): Code: E2
  - Maximum net quantity per inner packaging: 30 ml
  - Maximum net quantity per outer packaging: 500 ml
  - Transport category: 2
  - Tunnel restriction code: D/E

- IMDG
  - Limited quantities (LQ): 5L
  - Excepted quantities (EQ): Code: E2
  - Maximum net quantity per inner packaging: 30 ml
  - Maximum net quantity per outer packaging: 500 ml

- UN "Model Regulation":
  - UN1263, PAINT (vapour pressure at 50 °C not more than 110 kPa), 3, II

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Technical instructions (air):

<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>0.2</td>
</tr>
<tr>
<td>NK</td>
<td>46.9</td>
</tr>
</tbody>
</table>

- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 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
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H228 Flammable solid.
  - H301 Toxic if swallowed.
  - H304 May be fatal if swallowed and enters airways.
  - H311 Toxic in contact with skin.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

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

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Flam. Sol. 1: Flammable solids, Hazard Category 1
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3