



**HMG Coatings (South) Ltd**  
 Faraday Park  
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**Tel:** 01264 356296  
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## PRODUCT NAME

**Synergy® One Pack Etch Primer**

Material Safety Datasheet

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

**Product:** Synergy® One Pack Etch Primer

**Limitations of Use:** For Professional use only.

**Product No:** 3159

**Company:** HMG COATINGS SOUTH LTD

Faraday Park  
 West Portway Ind Est  
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**Telephone:** 01264 356296

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## 2. Hazards identification

### Classification of the substance or mixture

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



T; Toxic

R45: May cause cancer.



Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



F; Highly flammable

R11: Highly flammable.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 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.

67-63-0	propan-2-ol
78-93-3	methyl ethyl ketone
1330-20-7	Xylene (mix)
7664-38-2	phosphoric acid
71-36-3	butanol
108-95-2	phenol

### 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

F Highly flammable

N Dangerous for the environment

#### Hazard-determining components of labelling:

zinc chromates including zinc potassium chromate

Xylene (mix)



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### Risk phrases:

- 45 May cause cancer.
- 11 Highly 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.

### Safety phrases:

- 53 Avoid exposure - obtain special instructions before use.
- 7/9 Keep container tightly closed and in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 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 chromium (VI). May produce an allergic reaction.

### Other hazards

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3. Composition/information on ingredients

### Chemical characterization: Mixtures

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

### Dangerous components:

CAS: 67-63-0	propan-2-ol	25-50%
EINECS: 200-661-7	Xi R36  F R11 R67	
CAS: 78-93-3	methyl ethyl ketone	10-25%
EINECS: 201-159-0	Xi R36  F R11 R66-67	
CAS: 1330-20-7	Xylene (mix)	10-25%
EINECS: 215-535-7	Xn R20/21  Xi R38 R10	
EINECS: 234-329-8	zinc chromates including zinc potassium chromate T Carc. Cat. 1 R45  Xn R22 Xi R43 N R50/53	2.5-10%
CAS: 7664-38-2	phosphoric acid	≤2.5%
EINECS: 231-633-2	C R34	
CAS: 108-95-2	phenol	≤2.5%
EINECS: 203-632-7	T R23/24/25  C R34  Xn R48/20/21/22-68 Muta. Cat. 3	

**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:

CO<sub>2</sub>, 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:

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 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.



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### 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.

**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:**

#### 67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm  
 Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

#### 78-93-3 methyl ethyl ketone

WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
 Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
 Sk

#### 1330-20-7 Xylene (mix)

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
 Sk; BMGV

#### 7664-38-2 phosphoric acid

WEL Short-term value: 2 mg/m<sup>3</sup>  
 Long-term value: 1 mg/m<sup>3</sup>

#### 108-95-2 phenol

WEL Long-term value: 2 ppm  
 Sk

**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 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



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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.

#### Change in condition

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

**Boiling point/Boiling range:** 79 °C

**Flash point:** -4 °C

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

**Ignition temperature:** 400 °C

**Decomposition temperature:** Not determined.

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### Explosion limits:

**Lower:** 1.1 Vol %

**Upper:** 12.0 Vol %

**Vapour pressure at 20 °C:** 105 hPa

**Density:** Not determined.

**Relative density:** Not determined.

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

**Solubility in / Miscibility with water:** NOT MISCIBLE

**Segregation coefficient (n-octanol/water):** Not determined.

#### Viscosity:

**Dynamic:** Not determined.

**Kinematic:** Not determined.

#### Solvent content:

**Organic solvents:** 72.0 %

**Other information:** No further relevant information available.

## 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)



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### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Strong irritant with the danger of severe eye injury.

**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

Carcinogenic.

## 12. Ecological information

### Toxicity

**Acquatic 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

ADR, IMDG, IATA

UN1263

### UN proper shipping name

ADR

1263 PAINT (vapour pressure at 50°C not more than 110 kPa), ENVIRONMENTALLY HAZARDOUS

IMDG, IATA

PAINT

### Transport hazard class(es)

ADR



Class

3 Flammable liquids.

Label

3



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### IMDG, IATA



<b>Class</b>	3 Flammable liquids.
<b>Label</b>	3
<b>Packing group</b>	
<b>ADR, IMDG, IATA</b>	II
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>Special marking (ADR):</b>	Symbol (fish and tree)
<b>Special precautions for user</b>	Warning: Flammable liquids.
<b>Danger code (Kemler):</b>	33
<b>EMS Number:</b>	F-E,S-E
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Tunnel restriction code</b>	D/E

### 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 %

I 0.3

NK 72.3

**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.

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin.

R22 Harmful if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R45 May cause cancer.

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

R68 Possible risk of irreversible effects.

**Department issuing MSDS:** Product safety department: LABORATORY

**Contact:** Health & Safety Officer