

### 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:** PQ31 Chromate Free Grey Etch Primer
- **Article number:** PQ31
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Surface Coating
- **Application of the substance / the mixture**  
 Surface Coating  
 Surface Coating
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**  
 Phoenix Precision Paints Limited  
 13 Orwell Court,  
 Wickford,  
 Essex SS11 8YJ  
 Tel +44 (0)1268 730549  
 EMAIL: sales@phoenix-paints.co.uk
- **Further information obtainable from:** sales@phoenix-paints.co.uk
- **1.4 Emergency telephone number:** +44 (0)1268 730549 (Business hours)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2

H225 Highly flammable liquid and vapour.



GHS08 health hazard

STOT RE 2

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



GHS05 corrosion

Eye Dam. 1

H318 Causes serious eye damage.



GHS07

Skin Irrit. 2

STOT SE 3

Aquatic Chronic 3

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

## Safety data sheet according to 1907/2006/EC, Article 31

**Trade name:** PQ31 Chromate Free Grey Etch Primer

### • 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, GHS05, GHS07, GHS08

• **Signal word** Danger

#### • Hazard-determining components of labelling:

isobutanol

Xylene (mix)

butanol

phosphoric acid

#### • Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye damage.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

#### • Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

IF ON SKIN (or hair): 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.

Immediately call a POISON CENTER/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### • 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:

CAS: 1330-20-7 EINECS: 215-535-7	Xylene (mix) ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; ⚠ Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ STOT SE 3, H335; ⚠ Aquatic Chronic 3, H412	25-50%
CAS: 78-83-1 EINECS: 201-148-0	isobutanol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; ⚠ STOT SE 3, H335-H336	10-25%
CAS: 107-98-2 EINECS: 203-539-1	monopropylene glycol methyl ether ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	2.5-10%
CAS: 71-36-3 EINECS: 200-751-6	butanol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; ⚠ Skin Irrit. 2, H315; ⚠ STOT SE 3, H335-H336	2.5-20%
CAS: 7664-38-2 EINECS: 231-633-2	phosphoric acid ⚠ Skin Corr. 1B, H314	≤ 2.5%
CAS: 108-95-2 EINECS: 203-632-7	phenol ⚠ Acute Tox. 3, H301; ⚠ Acute Tox. 3, H311; ⚠ Acute Tox. 3, H331; ⚠ Muta. 2, H341; ⚠ STOT RE 2, H373; ⚠ Skin Corr. 1B, H314	≤ 2.5%

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

(Contd. on page 3)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

**Trade name:** PQ31 Chromate Free Grey Etch Primer

### SECTION 4: First Aid Measures

#### 4.1 Description of first aid measures

• **General information:** Immediately remove any clothing soiled by the product.

• **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing.

Immediately rinse with water.

• **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

• **After swallowing:**

Do not induce vomiting; call for medical help immediately and show safety datasheet or label.

• **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** Treat symptomatically.

### SECTION 5: Fire Fighting Measures

• **5.1 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

• **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

• **5.3 Advice for firefighters**

• **Protective equipment:** Mount respiratory protective device.

### SECTION 6: Accidental Release Measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

• **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

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.

• **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

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**

Ensure good ventilation/extraction at the workplace.

Hygiene measures:

Wash hands before breaks and at the end of workday.

Use protective skin cream before handling the product.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

**Trade name:** PQ31 Chromate Free Grey Etch Primer

• **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

• **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 and in a well-ventilated place.

Keep away from heat.

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**

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

**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
-----	--

**78-83-1 isobutanol**

WEL	Short-term value: 231 mg/m <sup>3</sup> , 75 ppm Long-term value: 154 mg/m <sup>3</sup> , 50 ppm
-----	---

**107-98-2 monopropylene glycol methyl ether**

WEL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Sk
-----	---

**71-36-3 butanol**

WEL	Short-term value: 154 mg/m <sup>3</sup> , 50 ppm Sk
-----	--

**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	Short-term value: 16 mg/m <sup>3</sup> , 4 ppm Long-term value: 7.8 mg/m <sup>3</sup> , 2 ppm Sk
-----	--

• **DNELs**

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

Dermal	DNEL	108 mg/day (Con) 180 mg/day (Ind)
Inhalative	DNEL	14.8 mg/m <sup>3</sup> (Con) 77 mg/m <sup>3</sup> (Ind)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

**Trade name:** PQ31 Chromate Free Grey Etch Primer

<b>78-83-1 isobutanol</b>		
Oral	DNEL	25 mg/day (Con)
Inhalative	DNEL	55 mg/m <sup>3</sup> (Con) 310 mg/m <sup>3</sup> (Ind)
<b>107-98-2 monopropylene glycol methyl ether</b>		
Oral	DNEL	3.3 mg/day (Con)
Dermal	DNEL	18.1 mg/day (Con) 50.6 mg/day (Ind)
Inhalative	DNEL	43.9 mg/m <sup>3</sup> (Con) 369 mg/m <sup>3</sup> (Ind)
<b>71-36-3 butanol</b>		
Oral	DNEL	3125 mg/day (Con)
Inhalative	DNEL	55 mg/m <sup>3</sup> (Con) 310 mg/m <sup>3</sup> (Ind)
<b>7664-38-2 phosphoric acid</b>		
Inhalative	DNEL	0.73 mg/m <sup>3</sup> (Con) 2.92 mg/m <sup>3</sup> (Ind)
<b>108-95-2 phenol</b>		
Dermal	DNEL	1.23 mg/day (Ind)
Inhalative	DNEL	8 mg/m <sup>3</sup> (Ind)

• **PNECs**

CAS No. 1330-20-7 Xylene mixed isomers

- Fresh water; 0.327 mg/l
- Marine water; 0.327 mg/l
- Intermittent release; 0.327 mg/l
- STP; 6.58 mg/l
- Sediment (Freshwater); 12.46 mg/kg
- Sediment (Marinewater); 12.46 mg/kg
- Soil; 2.31 mg/kg

• **Ingredients with biological limit values:**

1330-20-7 Xylene (mix)

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
------	--

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

• **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.
- Store protective clothing separately.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

• **Respiratory protection:**

When spraying the product, use a respiratory protective device.

If spraying this product, an ABEK respirator to EN141 and EN405 is normally sufficient. If in doubt, consult a respirator manufacturer and show this safety data sheet.

**Safety data sheet**  
according to 1907/2006/EC, Article 31

**Trade name:** PQ31 Chromate Free Grey Etch Primer

• **Protection of hands:**



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**

• **General Information**

• **Appearance:**

Form: Liquid

Colour: Clear

• **Odour:** Characteristic

• **Odour threshold:** Not determined.

• **pH-value:** Not determined.

• **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 108 °C

• **Flash point:** 22 °C

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

• **Ignition temperature:** 390 °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:** 12 hPa

• **Density at 20 °C:** 1.009 g/cm<sup>3</sup>

• **Relative density** Not determined.

• **Vapour density** Not determined.

• **Evaporation rate** Not determined.

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Trade name: PQ31 Chromate Free Grey Etch Primer

• <b>Solubility in / Miscibility with water:</b>	NOT MISCIBLE
• <b>Partition coefficient (n-octanol/water):</b>	Not determined.
• <b>Viscosity:</b>	
Dynamic at 20 °C:	590 mPas
Kinematic:	Not determined.
• <b>Solvent content:</b>	
Organic solvents:	62.2 %
Solids content:	38.0 %
• <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and Reactivity

- **10.1 Reactivity:** No further relevant information available.
- **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:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products when stored and handled correctly

### SECTION 11: Toxicological Information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

• <b>LD/LC50 values relevant for classification:</b>		
<b>1330-20-7 Xylene (mix)</b>		
Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
<b>78-83-1 isobutanol</b>		
Oral	LD50	>2000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rab)
<b>107-98-2 monopropylene glycol methyl ether</b>		
Oral	LD50	4016 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (Rat)
Inhalative	LC50/4 h	6 mg/l (rat)
<b>71-36-3 butanol</b>		
Oral	LD50	790 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rbt)
Inhalative	LC50/4 h	8000 mg/l (rat)
<b>7664-38-2 phosphoric acid</b>		
Oral	LD50	2600 mg/kg (Rat)
<b>108-95-2 phenol</b>		
Oral	LD50	300 mg/kg (mus)
Dermal	LD50	670 mg/kg (rat)
Inhalative	LC50/4 h	316 mg/l (rat)

(Contd. on page 8)

## Safety data sheet according to 1907/2006/EC, Article 31

**Trade name:** PQ31 Chromate Free Grey Etch Primer

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 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.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
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

- |                                       |            |
|---------------------------------------|------------|
| • <b>14.1 UN-Number</b>               |            |
| • <b>ADR, IMDG, IATA</b>              | UN1263     |
| • <b>14.2 UN proper shipping name</b> |            |
| • <b>ADR</b>                          | 1263 PAINT |
| • <b>IMDG</b>                         | PAINT      |
| • <b>IATA</b>                         | Paint      |

(Contd. on page 9)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Trade name: PQ31 Chromate Free Grey Etch Primer

- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA



- Class 3 Flammable liquids.
- Label 3

- 14.4 Packing group III
- ADR, IMDG, IATA

- 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-E
- Stowage Category A

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

• Transport/Additional information:

- ADR
- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- Transport category 3
- 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": UN 1263 PAINT, 3, III

## SECTION 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Technical instructions (air):

Class	Share in %
I	0.7
NK	62.1

- **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.

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

**Trade name:** PQ31 Chromate Free Grey Etch Primer

### 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**

H226 Flammable liquid and vapour.  
 H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H311 Toxic in contact with skin.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 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.  
 H341 Suspected of causing genetic defects.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.

• **Department issuing SDS:** 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)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids, Hazard Category 2  
 Flam. Liq. 3: Flammable liquids, Hazard Category 3  
 Acute Tox. 3: Acute toxicity, Hazard Category 3  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
 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  
 Muta. 2: Germ cell mutagenicity, Hazard Category 2  
 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 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3