

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

|                        |                 |
|------------------------|-----------------|
| Product Name:          | Cleaner Type C  |
| CAS No:                | Not applicable. |
| EC No:                 | Not applicable. |
| REACH Registration No: | Not known.      |

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

|                        |   |
|------------------------|---|
| Identified Use(s):     | For the electrolytic chemical etching of metals |
| Uses Advised Against : | None.   |

### 1.3 Details of the supplier of the safety data sheet

|                          |  |
|--------------------------|--|
| Manufacturer             |  |
| Company Identification:  | Pryor Marking Technology                     |
| Address of Manufacturer: | Global HQ: Egerton Street<br>Sheffield<br>UK |
| Postal code:             | S1 4JX                                       |
| Telephone:               | +44 (0) 1142766044                           |
| Fax                      | +44 (0)1142766890                            |
| E-mail                   | info@pryormarking.com                        |
| Office hours             | 8:30-17:00                                   |

|                                       |  |
|---------------------------------------|--|
| <b>1.4 Emergency telephone number</b> | +44 (0)1142766044 Monday to Thursday, 08:30 - 17:30 GMT<br>(08:30 - 15:30 Friday), English |
|---------------------------------------|--|

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified

### 2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

|                            |                |
|----------------------------|----------------|
| Product Name               | Cleaner Type C |
| Hazard Pictogram(s)        | None           |
| Signal Word(s)             | None           |
| Hazard Statement(s)        | None           |
| Precautionary Statement(s) | None           |

### 2.3 Other hazards

None known.

### 2.4 Additional Information

For full text of H/P Statements see section 16.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

| HAZARDOUS INGREDIENT(S)  | CAS No.    | EC No. / REACH Registration No. | %W/W | Hazard Statement(s)    | Hazard Pictogram(s) |
|--|------------|---------------------------------|------|------------------------|---------------------|
| Sulfonic acids, petroleum, sodium salts                        | 68608-26-4 | 271-781-5                       | 1-5  | Eye Irrit. 2 H319      | GHS07               |
| 2-(2-butoxyethoxy)ethanol<br>diethylene glycol monobutyl ether | 112-34-5   | 203-961-6                       | 1-2  | Eye Irrit. 2 H319      | GHS07               |
| 2,6-di-tert-butyl-p-cresol                                     | 128-37-0   | 204-881-4                       | 1    | Aquatic Chronic 3 H412 | -                   |

For full text of H Statements see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

|              |  |
|--------------|--|
| Inhalation   | Remove to fresh air. Get medical attention if any discomfort continues.  |
| Skin Contact | Flush with water. Seek medical attention if irritation persists.   |
| Eye Contact  | Immediately flush with water. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues. |
| Ingestion    | Do not induce vomiting. Seek medical attention if feeling unwell.  |

### 4.2 Most important symptoms and effects, both acute and delayed

None anticipated. Treat symptomatically.

### 4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                                |                                      |
|--------------------------------|--------------------------------------|
| Suitable Extinguishing media   | As appropriate for surrounding fire. |
| Unsuitable extinguishing media | None.                                |

### 5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

### 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely.

**6.2 Environmental precautions**

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

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

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

**6.4 Reference to other sections**

See Also Section 8, 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Prevent material from entering surface waters, drains and soil.

**7.2 Conditions for safe storage, including any incompatibilities**

|                        |                                 |
|------------------------|---------------------------------|
| Storage temperature    | Ambient.                        |
| Storage life           | Stable under normal conditions. |
| Incompatible materials | None known.                     |

**7.3 Specific end use(s)**

For the electrolytic chemical etching of metals

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**8.1.1 Occupational Exposure Limits**

| SUBSTANCE.                 | CAS No.  | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m <sup>3</sup> ) | STEL (ppm) | STEL (mg/m <sup>3</sup> ) | Note  |
|----------------------------|----------|---------------------|------------------------------------|------------|---------------------------|-------|
| 2-(2-Butoxyethoxy) ethanol | 112-34-5 | 10                  | 67.5                               | 15         | 101.2                     |       |
| 2-(2-Butoxyethoxy)ethanol  | 112-34-5 | 10                  | 67.5                               | 15         | 101.2                     | IOELV |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 |                     | 10                                 |            |                           |       |

IOELV: Indicative Occupational Exposure Limit Value

## 8.2 Exposure controls

### 8.2.1. Appropriate engineering controls

Ensure adequate ventilation.

### 8.2.2. Personal protection equipment



#### Eye Protection

Wear safety glasses with side protection (EN166) if contact with the eyes is likely



#### Skin protection

Gloves should be worn where repeated or prolonged contact can occur.



#### Respiratory protection

Normally no personal respiratory protection is necessary.

Thermal hazards

None known.

### 8.2.3. Environmental Exposure Controls

Do not release large quantities into the surface water or into drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| Appearance:                                   | Liquid.   |
|   | Colour: Colourless.   |
| Odour:  | Not known.  |
| Odour threshold:                              | Not known.  |
| pH:   | Not known.  |
| Melting point/freezing point:                 | Not known.  |
| Initial boiling point and boiling range:      | Not known.  |
| Flash Point:                                  | Not known.  |
| Evaporation rate:                             | Not known.  |
| Flammability (solid, gas):                    | Not known.  |
| Upper/lower flammability or explosive limits: | Not known.  |
| Vapour pressure:                              | Not known.  |
| Vapour density:                               | Not known.  |
| Density (g/ml):                               | Not known.  |
| Relative density:                             | Not known.  |
| Solubility(ies):                              | Solubility (Water) : Soluble<br>Solubility (Other) : Not known. |
| Partition coefficient: n-octanol/water:       | Not known.  |
| Auto-ignition temperature:                    | Not known.  |
| Decomposition Temperature (°C):               | Not known.  |
| Viscosity:                                    | Not known.  |

Explosive properties: Not known.  
Oxidising properties: Not known.

## 9.2 Other information

None.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

None anticipated.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

### 10.4 Conditions to avoid

None anticipated.

### 10.5 Incompatible materials

Not known.

### 10.6 Hazardous decomposition products

Oxides of nitrogen and phosphorus may be generated if the substance is involved in a fire.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|                                |  |
|--------------------------------|--|
| Acute toxicity - Ingestion     | Not classified.  |
|                                | Calculated acute toxicity estimate (ATE) - 3232 mg/kg bw |
| Acute toxicity - Skin Contact  | Not classified.  |
| Acute toxicity - Inhalation    | Not classified.  |
|                                | Calculated acute toxicity estimate (ATE) 3793 mg/l       |
| Skin corrosion/irritation      | Not classified.  |
| Serious eye damage/irritation  | Not classified.  |
| Skin sensitization data        | Not classified.  |
| Respiratory sensitization data | Not classified.  |
| Germ cell mutagenicity         | Not classified.  |
| Carcinogenicity                | Not classified.  |
| Reproductive toxicity          | Not classified.  |
| Lactation                      | Not classified.  |
| STOT - single exposure         | Not classified.  |
| STOT - repeated exposure       | Not classified.  |
| Aspiration hazard              | Not classified.  |

### 11.2 Other information

Not known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

|                                    |                                |
|------------------------------------|--------------------------------|
| Toxicity - Aquatic invertebrates   | Low toxicity to invertebrates. |
| Toxicity - Fish                    | Low toxicity to fish           |
| Toxicity - Algae                   | Low toxicity to algae          |
| Toxicity - Sediment Compartment    | Not classified.                |
| Toxicity - Terrestrial Compartment | Not classified.                |

### 12.2. Persistence and Degradation

Not known.

### 12.3. Bioaccumulative potential

Not known.

### 12.4. Mobility in soil

Not known.

### 12.5. Results of PBT and vPvB assessment

Not known.

### 12.6 Other adverse effects

Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation.

### 13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

## SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

|   |  |
|---|--|
| Candidate List of Substances of Very High Concern for Authorisation   | Not listed                                   |
| REACH: ANNEX XIV list of substances subject to authorisation  | Not listed                                   |
| REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | 2-(2-butoxyethoxy)ethanol (DEGBE) (112-34-5) |
| Community Rolling Action Plan (CoRAP)   | Not listed                                   |
| Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants                              | Not listed                                   |
| Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer   | Not listed                                   |
| Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals       | Not listed                                   |
| National regulations - Other  | Not known.                                   |

## 15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

### SECTION 16: OTHER INFORMATION

**Hazard Statement(s):**

H319: Causes serious eye irritation

H412: Harmful to aquatic life with long lasting effects

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|---|----------|
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