

Printing date 03.12.2014 Version number 44 Revision: 12.11.2014

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

- · 1.1 Product identifier
- · Trade name: ProXL® PROETCH 500 ML
- · Article number: PROETCH
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Paint
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

ProXL

Second Avenue

Chatham

Kent

ME4 5AU

Tel: +44 (0)1634 823900 Fax: +44 (0)1634 823909 Email: info@pro-xl.co.uk

- · Further information obtainable from: QHSE Department
- 1.4 Emergency telephone number: Tel: +44(0) 1634 823900 (08.00 / 17.00)

+31 629058130 (24 h/d, 7 d/wk)

### SECTION 2: Hazards identification

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



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

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

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



Xi; Irritant

*R36: Irritating to eyes.* 



*F+; Extremely flammable* 

R12: Extremely flammable.

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N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and

dizziness.

· 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.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurised container.

Has a narcotising effect.

· Classification system:

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

- · 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 GHS0

- · Signal word Danger
- · Hazard-determining components of labelling:

butan-1-ol

acetone

n-butyl acetate

propan-2-ol

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

*H412 Harmful to aquatic life with long lasting effects.* 

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

*P260* Do not breathe spray.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

*P251 Pressurized container: Do not pierce or burn, even after use.* 

P211 Do not spray on an open flame or other ignition source.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

*P501* Dispose of contents/container in accordance with local regulations.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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CAS: 71-36-3

CAS: 7779-90-0

EINECS: 231-944-3

EINECS: 200-751-6

Index number: 603-004-00-6

Index number: 030-011-00-6

Reg.nr.: 01-2119485044-40-xxxx

Reg.nr.: 01-2119484630-38-xxxx

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

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| Dangerous components:  |  |          |
|--|--|----------|
| CAS: 67-64-1<br>EINECS: 200-662-2<br>Index number: 606-001-00-8<br>Reg.nr.: 01-2119471330-49-xxxx  | acetone  Xi R36 FR11 R66-67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 | 20-25%   |
| CAS: 115-10-6<br>EINECS: 204-065-8<br>Index number: 603-019-00-8<br>Reg.nr.: 01-2119472128-37-xxxx | dimethyl ether  F+ R12  Flam. Gas 1, H220; Flam. Liq. 1, H224  Press. Gas C, H280  | 12.5-20% |
| CAS: 123-86-4<br>EINECS: 204-658-1<br>Index number: 607-025-00-1<br>Reg.nr.: 01-2119485493-29-xxxx | n-butyl acetate<br>R10-66-67<br>Tlam. Liq. 3, H226<br>STOT SE 3, H336              | 12.5-20% |
| CAS: 108-65-6<br>EINECS: 203-603-9<br>Index number: 607-195-00-7<br>Reg.nr.: 01-2119475791-29-xxxx | 2-methoxy-1-methylethyl acetate<br>R10<br>Flam. Liq. 3, H226                       | 5-10%    |
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Index number: 601-003-00-5<br>Reg.nr.: 01-2119486944-21-xxxx  | propane F+ R12 Flam. Gas 1, H220 Press. Gas C, H280                                | 5-10%    |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Index number: 601-004-00-0<br>Reg.nr.: 01-2119474691-32-xxxx | butane F+ R12 Flam. Gas 1, H220 Press. Gas C, H280                                 | 2.5-5%   |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Index number: 601-004-00-0<br>Reg.nr.: 01-2119485395-27-xxxx  | isobutane<br><b>▶</b> F+ R12<br><b>◆</b> Flam. Gas 1, H220<br>Press. Gas C, H280   | 2.5-5%   |
| CAS: 9004-70-0   | Nitrocellulose (nitrogen content <12.6%)  F R11                                    | 2.5-5%   |

🏇 Flam. Sol. 1, H228

**♦** Flam. Liq. 3, H226 **♦** Eye Dam. 1, H318

H335-H336

**W** N R50/53

trizinc bis(orthophosphate)

♠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3,

🔖 Aquatic Acute 1, H400; Aquatic Chronic 1, H410

butan-1-ol **X** Xn R22

Xi R37/38-41 R10-67

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1-2.5%

2.5-5%

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|-------------------------------------|---|------------------|
| CAS: 67-63-0                        | propan-2-ol   | 1-2.5%           |
| EINECS: 200-661-7                   | <b>★</b> Xi R36   |                  |
| Index number: 603-117-00-0          | F R11   |                  |
| Reg.nr.: 01-2119457558-25-xxxx      |   |                  |
|                                     | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319; STOT SE 3, H336   | _                |
| CAS: 1330-20-7                      | xylene  | 1-2.5%           |
| EINECS: 215-535-7                   | $\mathbf{x}$ Xn R20/21                                      | 1-2.570          |
| Index number: 601-022-00-9          | Xi R38  |                  |
| Reg.nr.: 01-2119488216-32-xxxx      |   |                  |
|                                     | Flam. Liq. 3, H226  | _                |
|                                     | Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 |                  |
| · Additional information: For the v | 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; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

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

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 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: No special measures required.

### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

· 6.2 Environmental precautions:

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

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: 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.

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## SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from heat and direct sunlight.
- · 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: |               |  |  |
|---|---------------|--|--|
| 67-64-1 acetone   |               |  |  |
| WEL Short-term value: 3620 mg/m³,                                       | , 1500 ppm    |  |  |
| Long-term value: 1210 mg/m³,  |               |  |  |
| 115-10-6 dimethyl ether   |               |  |  |
| WEL Short-term value: 958 mg/m³,  | 500 ppm       |  |  |
| Long-term value: 766 mg/m³, 4   | 400 ppm       |  |  |
| 123-86-4 n-butyl acetate  |               |  |  |
| WEL Short-term value: 966 mg/m³, 2                                      | 200 ррт       |  |  |
| Long-term value: 724 mg/m³, 1   | 150 ppm       |  |  |
| 108-65-6 2-methoxy-1-methylethyl a                                      | acetate       |  |  |
| WEL Short-term value: 548 mg/m³,  | 100 ppm       |  |  |
| Long-term value: 274 mg/m³, 5   | 50 ppm        |  |  |
| Sk  |               |  |  |
| 106-97-8 butane   |               |  |  |
| WEL Short-term value: 1810 mg/m³,                                       |               |  |  |
| Long-term value: 1450 mg/m³,  |               |  |  |
| Carc (if more than 0.1% of but  | ta-1.3-diene) |  |  |
| 71-36-3 butan-1-ol  |               |  |  |
| WEL Short-term value: 154 mg/m³, 3                                      | 50 ppm        |  |  |
| Sk  |               |  |  |
| 67-63-0 propan-2-ol   |               |  |  |
| WEL Short-term value: 1250 mg/m³,                                       | , 500 ррт     |  |  |
| Long-term value: 999 mg/m³, 4   | 400 ppm       |  |  |
| 1330-20-7 xylene  |               |  |  |
| WEL Short-term value: 441 mg/m³,  | 100 ppm       |  |  |
| Long-term value: 220 mg/m³, 5   |               |  |  |
| Sk; BMGV  |               |  |  |
| SN, DING!   | (Contd. on    |  |  |

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#### · Ingredients with biological limit values:

#### 1330-20-7 xylene

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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

- · Material of gloves Not required.
- · Penetration time of glove material Not required.
- · Eye protection:



Tightly sealed goggles

#### SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Aerosol

Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

**Boiling point/Boiling range:** Not applicable, as aerosol.

• Flash point:  $< 0 \, ^{\circ}C \, (< 32 \, ^{\circ}F)$ 

Not applicable, as aerosol.

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 240 °C (464 °F)

· **Decomposition temperature:** Not determined.

· Self-igniting: Product is not selfigniting.

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|---------------------------------------|---|
| Danger of explosion:                  | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| Explosion limits:                     |   |
| Lower:                                | 1.2 Vol %   |
| Upper:                                | 26.2 Vol %  |
| Vapour pressure at 20 °C (68 °F):     | 4000 hPa (3000 mm Hg)   |
| Density at 20 °C (68 °F):             | 0.826 g/cm³ (6.893 lbs/gal)   |
| Relative density                      | Not determined.   |
| Vapour density                        | Not determined.   |
| Evaporation rate                      | Not applicable.   |
| Solubility in / Miscibility with      |   |
| water:                                | Not miscible or difficult to mix.   |
| Partition coefficient (n-octanol/wate | r): Not determined.   |
| Viscosity:                            |   |
| Dynamic:                              | Not determined.   |
| Kinematic:                            | Not determined.   |
| Solvent content:                      |   |
| Organic solvents:                     | 81.1 %  |
| EU-VOC:                               | 670.2 g/l   |
| EU-VOC in %:                          | 81.14%  |
| Solids content:                       | 25.4 %  |
| 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 No further relevant information available.
- · 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:

|            |               | ant for classification: |  |
|------------|---------------|-------------------------|--|
| 67-64-1 ac |               |                         |  |
| Oral       | LD50          | 5800 mg/kg (rat)        |  |
| Dermal     | LD50          | 20000 mg/kg (rabbit)    |  |
| Inhalative | LC50 / 4 h    | 39 mg/m3 (rat)          |  |
| 115-10-6 a | limethyl eth  | er                      |  |
| Inhalative | LC50 / 4 h    | 308 mg/m3 (rat)         |  |
| 123-86-4 i | ı-butyl aceta | nte                     |  |
| Oral       | LD50          | 10770 mg/kg (rat)       |  |
| Dermal     | LD50          | >17600 mg/kg (rabbit)   |  |
| Inhalative | LC50 / 4 h    | >21.0 mg/m3 (rat)       |  |

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|------------|---------------|----------------------|-----------------|
| 108-65-6 2 | ?-methoxy-1   | -methylethyl acetate |                 |
| Oral       | LD50          | 8532 mg/kg (rat)     |                 |
| Dermal     | LD50          | >5000 mg/kg (rabbit) |                 |
| Inhalative | LC50 / 4 h    | 35.7 mg/m3 (rat)     |                 |
| 106-97-8 b | utane         |                      |                 |
| Inhalative | LC50 / 4 h    | 658000 mg/m3 (rat)   |                 |
| 71-36-3 bu | ıtan-1-ol     |                      |                 |
| Oral       | LD50          | 2292 mg/kg (rat)     |                 |
| Dermal     | LD50          | 3430 mg/kg (rabbit)  |                 |
| Inhalative | LC50 / 4 h    | 17.76 mg/m3 (rat)    |                 |
| 7779-90-0  | trizinc bis(d | rthophosphate)       |                 |
| Oral       | LD50          | 522 mg/kg (mouse)    |                 |
|            |               | >5000 mg/kg (rat)    |                 |
| 67-63-0 pr | opan-2-ol     |                      |                 |
| Oral       | LD50          | 5045 mg/kg (rat)     |                 |
| Dermal     | LD50          | 12800 mg/kg (rabbit) |                 |
| Inhalative | LC50 / 4 h    | 30 mg/m3 (rat)       |                 |
| 1330-20-7  | xylene        |                      |                 |
| Oral       | LD50          | 4300 mg/kg (rat)     |                 |
| Dermal     | LD50          | 2000 mg/kg (rabbit)  |                 |
| Inhalative | LC50 / 4 h    | 22.1 mg/m3 (rat)     |                 |

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitisation: No sensitising effects known.
- · 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:

Irritant

## SECTION 12: Ecological information

· 12.1 Toxicity

| 67-64-1 acetone      |                               |
|----------------------|-------------------------------|
| EC50 / 48 h          | 8800 mg/l (daphnia magna)     |
| LC50 / 48 h          | 2262 mg/l (daphnia magna)     |
| LC50 / 96 h (static) | 5540 mg/l (fish)              |
| 115-10-6 dimethyl et | her                           |
| EC50 / 48 h          | >4000 mg/l (daphnia magna)    |
| 123-86-4 n-butyl ace | tate                          |
| EC50 / 48 h          | 44 mg/l (daphnia magna)       |
| EC50 / 96 h          | 320 mg/l (algae)              |
| LC50 / 24 h          | 205 mg/l (daphnia magna)      |
| LC50 / 96 h          | 18 mg/l (Pimephales promelas) |
| 108-65-6 2-methoxy-  | 1-methylethyl acetate         |
| EC50                 | 408 mg/l (daphnia magna)      |

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|-------------------------|---------------------------------|--|
| 71-36-3 butan-1-ol      |                                 |  |
| EC50 / 48 h             | 1328 mg/l (daphnia magna)       |  |
| EC50 / 72 h             | 8500 mg/l (algae)               |  |
| LC50 / 96 h             | 1376 mg/l (Pimephales promelas) |  |
| 7779-90-0 trizinc bis(o | rthophosphate)                  |  |
| EC50 / 48 h             | 0.04 mg/l (daphnia magna)       |  |
| EC50 / 72 h             | 0.136 mg/l (algae)              |  |
| LC50 / 96 h             | 0.14 mg/l (fish)                |  |
| 67-63-0 propan-2-ol     |                                 |  |
| EC50 / 48 h             | 13299 mg/l (daphnia magna)      |  |
| LC50 / 96 h (dynamic)   | 4200 mg/l (fish)                |  |
| 1330-20-7 xylene        |                                 |  |
| EC50 / 48 h             | 7.4 mg/l (daphnia magna)        |  |
| LC50 / 96 h             | 13.5 mg/l (fish)                |  |

- · 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.
- · Ecotoxical effects:
- · Remark: Toxic for 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.

Also poisonous for fish and plankton in water bodies.

Toxic for 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.

|            |                       | C              |             | _      | _      | -                    | 0,                |
|------------|-----------------------|----------------|-------------|--------|--------|----------------------|-------------------|
| · European | waste cat             | alogue         |             |        |        |                      |                   |
| 08 01 11*  | waste pai             | int and varnis | h containin | g orga | nic so | lvents or other dang | gerous substances |
| 15 01 04   | metallic <sub>l</sub> | packaging      |             |        |        |                      |                   |

- · Uncleaned packaging:
- · Recommendation: Non contaminated packagings may be recycled.

| SECTION 14: | Transport in | formation |
|-------------|--------------|-----------|
|             |              |           |

| · 14.1 UN-Number<br>· ADR, IMDG, IATA | UN1950               |           |
|---------------------------------------|----------------------|-----------|
| · 14.2 UN proper shipping name        |                      |           |
| · ADR                                 | <i>1950 AEROSOLS</i> |           |
| · IMDG                                | AEROSOLS             |           |
|                                       |                      | (6 .1 10) |

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| IATA  | AEROSOLS, flammable                |
| 14.3 Transport hazard class(es)                                       |                                    |
| ADR   |                                    |
|   |                                    |
| Class   | 2 5F Gases.                        |
| Label   | 2.1                                |
| IMDG, IATA  |                                    |
|   |                                    |
| Class   | 2.1                                |
| Label   | 2.1                                |
| 14.4 Packing group<br>ADR, IMDG, IATA                                 | Void                               |
| 14.5 Environmental hazards:<br>Marine pollutant:                      | No                                 |
| 14.6 Special precautions for user                                     | Warning: Gases.                    |
| Danger code (Kemler):   | -<br>                              |
| EMS Number:   | F-D,S-U                            |
| 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code | x <b>II of</b><br>Not applicable.  |
| Transport/Additional information:                                     |                                    |
| ADR   |                                    |
| Limited quantities (LQ)   | IL                                 |
| Excepted quantities $(EQ)$  | Code: E0                           |
| Tunnan aut autan auu  | Not permitted as Excepted Quantity |
| Transport category Tunnel restriction code                            | 2<br>D                             |
|   |                                    |
| IMDG<br>Limited quantities (LQ)                                       | <i>IL</i>                          |
| Excepted quantities (EQ)  | Code: E0                           |
| 1 1   | Not permitted as Excepted Quantity |
| UN "Model Regulation":  | UN1950, AEROSOLS, 2.1              |

## SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · 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.

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Trade name: ProXL® PRO ETCH 500 ML

\* Data compared to the previous version altered.

(Contd. of page 10) · Relevant phrases H220 Extremely flammable gas. H224 Extremely flammable liquid and vapour. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H228 Flammable solid. H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. *H410 Very toxic to aquatic life with long lasting effects.* R10 Flammable. R11 Highly flammable. R12 Extremely flammable. R20/21 Harmful by inhalation and in contact with skin. Harmful if swallowed. R22 R36 Irritating to eyes. R37/38 Irritating to respiratory system and skin. R38 Irritating to skin. R41 Risk of serious damage to eyes. 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. · Department issuing MSDS: R&D legislation and regulatory advisor · Contact: QHSE Department · 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. Gas 1: Flammable gases, Hazard Category 1 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gas C: Gases under pressure: Compressed gas Flam. Liq. 1: Flammable liquids, Hazard Category 1 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. 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 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3