



# SAFETY DATA SHEET

Surfa-Etch 108

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

### 1.1 Product identifier

**Product name** : Surfa-Etch 108  
**Product description** : Cleaning solutions.  
**Product type** : Liquid.  
**UFI** : GN40-F0TF-Y003-JQJA

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

| Identified uses                    |   |
|------------------------------------|---|
| Industrial use<br>Professional use |   |
| Uses advised against               | Reason                                    |
| Consumer use                       | Product is not intended for consumer use. |

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

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Telephone no.: +32 (0) 13 460 200  
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Tor Coatings Limited  
Unit 21, White Rose Way, Follingsby Park, Gateshead, Tyne & Wear, NE10 8YX United Kingdom  
Telephone no.: +44 (0) 191 4106611  
Fax no.: +44 (0) 191 4920125  
enquiries@tor-coatings.com

**e-mail address of person responsible for this SDS** : rpmeurohas@rustoleum.eu

### 1.4 Emergency telephone number

[National advisory body/Poison Centre](#)

[Supplier](#)

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798  
Great Britain  
Hours of operation : 24 / 7

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

[Classification according to UK CLP/GHS](#)

Skin Corr. 1, H314  
Eye Dam. 1, H318

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## SECTION 2: Hazards identification

### 2.2 Label elements

**Hazard pictograms**

:



**Signal word**

: Danger

**Hazard statements**

: H314 - Causes severe skin burns and eye damage.

**Precautionary statements**

**General**

: Not applicable.

**Prevention**

: P280 - Wear protective gloves, protective clothing and eye or face protection.

**Response**

: P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. P305 + P351 + P338, P310 - 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 or doctor.

**Storage**

: P405 - Store locked up.

**Disposal**

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients**

: phosphoric acid

**Supplemental label elements**

: Not applicable.

**Supplemental label elements : Detergents - Regulation (EC) No 907/2006**

: For professional use only. This information is provided by the present Safety Data Sheet.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

: Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings**

: Not applicable.

**Tactile warning of danger**

: Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification**

: None known.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers  | %         | Classification   | Type    |
|-------------------------|--|-----------|--|---------|
| phosphoric acid         | REACH #:<br>01-2119485924-24<br>EC: 231-633-2<br>CAS: 7664-38-2                      | ≥10 - ≤25 | Met. Corr. 1, H290<br>Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318  | [1]     |
| propan-2-ol             | REACH #:<br>01-2119457558-25<br>EC: 200-661-7<br>CAS: 67-63-0<br>Index: 603-117-00-0 | ≤5        | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1] [2] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## SECTION 4: First aid measures

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

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
 pain  
 watering  
 redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
 stomach pains

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

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

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 phosphorus oxides

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.
- Additional information** : No unusual hazard if involved in a fire.

## SECTION 6: Accidental release measures

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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## SECTION 6: Accidental release measures

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| propan-2-ol             | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b><br>STEL 15 minutes: 1250 mg/m <sup>3</sup> .<br>STEL 15 minutes: 500 ppm.<br>TWA 8 hours: 999 mg/m <sup>3</sup> .<br>TWA 8 hours: 400 ppm. |

#### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

| Product/ingredient name | Type | Exposure              | Value                  | Population                     | Effects  |
|-------------------------|------|-----------------------|------------------------|--------------------------------|----------|
| phosphoric acid         | DNEL | Long term Inhalation  | 2,92 mg/m <sup>3</sup> | Workers                        | Local    |
|                         | DNEL | Long term Inhalation  | 0,73 mg/m <sup>3</sup> | General population [Consumers] | Local    |
|                         | DNEL | Short term Inhalation | 2 mg/m <sup>3</sup>    | Workers                        | Local    |
|                         | DNEL | Long term Inhalation  | 1 mg/m <sup>3</sup>    | Workers                        | Local    |
|                         | DNEL | Long term Inhalation  | 10,7 mg/m <sup>3</sup> | Workers                        | Systemic |
|                         | DNEL | Long term Inhalation  | 0,36 mg/m <sup>3</sup> | General population             | Local    |
|                         | DNEL | Long term Inhalation  | 4,57 mg/m <sup>3</sup> | General population             | Systemic |
|                         | DNEL | Long term Dermal      | 0,1 mg/kg bw/day       | General population             | Systemic |
| propan-2-ol             | DNEL | Short term Dermal     | 888 mg/kg bw/day       | Workers                        | Systemic |
|                         | DNEL | Short term Inhalation | 500 mg/m <sup>3</sup>  | Workers                        | Systemic |
|                         | DNEL | Short term Dermal     | 319 mg/kg bw/day       | General population [Consumers] | Systemic |
|                         | DNEL | Short term Inhalation | 89 mg/m <sup>3</sup>   | General population [Consumers] | Systemic |
|                         | DNEL | Short term Oral       | 26 mg/kg bw/day        | General population [Consumers] | Systemic |

#### PNECs

## SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Compartment Detail     | Value      | Method Detail |
|-------------------------|------------------------|------------|---------------|
| propan-2-ol             | Fresh water            | 140,9 mg/l | -             |
|                         | Marine                 | 140,9 mg/l | -             |
|                         | Fresh water sediment   | 552 mg/kg  | -             |
|                         | Marine water sediment  | 552 mg/kg  | -             |
|                         | Soil                   | 28 mg/kg   | -             |
|                         | Sewage Treatment Plant | 2251 mg/l  | -             |

### 8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### Skin protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): polyvinyl chloride (PVC)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear long sleeves and other protective clothing to prevent repeated or prolonged skin contact.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Chemicals resistant boots .

## SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: A respirator is not needed under normal and intended conditions of product use. In case of insufficient ventilation, wear suitable respiratory equipment. organic vapour filter (Type A) . (EN 141)
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

- Physical state** : Liquid.
- Colour** : Red.
- Odour** : Odourless.
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : >100°C (>212°F) [Literature]
- Flammability (solid, gas)** : Non-combustible.
- Lower and upper explosion limit** : Not available.
- Flash point** : Not relevant due to nature of the product.
- Auto-ignition temperature** : Not relevant due to nature of the product.
- Decomposition temperature** : Not available.
- pH** : 1 [Conc. (% w/w): 100%] [OECD 122]
- pH : Justification** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): Not available.
- Solubility(ies)** :

| Media      | Result                |
|------------|-----------------------|
| cold water | Easily soluble        |
| hot water  | Easily soluble        |
| methanol   | Very slightly soluble |
| acetone    | Very slightly soluble |

- Solubility in water** : Not available.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** : 2 kPa (15 mm Hg) [calculated.]
- Evaporation rate** : <1 (butyl acetate = 1)
- Relative density** : Not available.
- Density** : 1,1 to 1,13 g/cm<sup>3</sup> [20°C (68°F)] [DIN 53217]
- Vapour density** : Not available.
- Explosive properties** : Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.  
Non-explosive in the presence of the following materials or conditions: shocks and mechanical impacts.  
No unusual hazard if involved in a fire.
- Oxidising properties** : Not available.

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**SECTION 9: Physical and chemical properties****Particle characteristics****Median particle size** : Not applicable.**SECTION 10: Stability and reactivity****10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.**10.2 Chemical stability** : The product is stable.**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.**10.4 Conditions to avoid** : No specific data.**10.5 Incompatible materials** : Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.  
Reactive or incompatible with the following materials:  
alkalis**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

| Product/ingredient name        | Result                 | Species | Dose        | Exposure |
|--------------------------------|------------------------|---------|-------------|----------|
| phosphoric acid<br>propan-2-ol | LD50 Oral              | Rat     | 1530 mg/kg  | -        |
|                                | LC50 Inhalation Vapour | Rat     | 30 mg/l     | 4 hours  |
|                                | LC50 Inhalation Vapour | Rat     | 16000 ppm   | 4 hours  |
|                                | LD50 Dermal            | Rabbit  | 12800 mg/kg | -        |
|                                | LD50 Oral              | Rat     | 5000 mg/kg  | -        |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Surfa-Etch 108          | 6165,8       | N/A            | N/A                      | N/A                         | N/A                                 |
| phosphoric acid         | 1530         | N/A            | N/A                      | N/A                         | N/A                                 |
| propan-2-ol             | 5000         | 12800          | N/A                      | 30                          | N/A                                 |

**Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure                | Observation |
|-------------------------|--------------------------|---------|-------|-------------------------|-------------|
| propan-2-ol             | Eyes - Moderate irritant | Rabbit  | -     | 10 milligrams           | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 100 milligrams          | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 500 milligrams          | -           |

**Skin** : Causes severe skin burns and eye damage.**Eyes** : Causes serious eye damage.**Respiratory** : Based on available data, the classification criteria are not met.**Respiratory or skin sensitization**

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**SECTION 11: Toxicological information****Skin** : Based on available data, the classification criteria are not met.**Respiratory** : Based on available data, the classification criteria are not met.**Mutagenicity**

| Product/ingredient name | Test     | Experiment        | Result   |
|-------------------------|----------|-------------------|----------|
| propan-2-ol             | OECD 471 | Subject: Bacteria | Negative |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.**Carcinogenicity****Conclusion/Summary** : Based on available data, the classification criteria are not met.**Reproductive toxicity****Conclusion/Summary** : Based on available data, the classification criteria are not met.**Teratogenicity**

| Product/ingredient name | Result          | Species | Dose      | Exposure |
|-------------------------|-----------------|---------|-----------|----------|
| phosphoric acid         | Negative - Oral | Rat     | 410 mg/kg | -        |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category   | Route of exposure | Target organs    |
|-------------------------|------------|-------------------|------------------|
| propan-2-ol             | Category 3 | -                 | Narcotic effects |

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Eyes.  
Routes of entry not anticipated: Inhalation.**Potential acute health effects****Eye contact** : Causes serious eye damage.**Inhalation** : No known significant effects or critical hazards.**Skin contact** : Causes severe burns.**Ingestion** : No known significant effects or critical hazards.**Symptoms related to the physical, chemical and toxicological characteristics****Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness**Inhalation** : No specific data.**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur**Ingestion** : Adverse symptoms may include the following:  
stomach pains**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure****Potential immediate effects** : Not available.**Potential delayed effects** : Not available.

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**SECTION 11: Toxicological information****Long term exposure****Potential immediate effects** : Not available.**Potential delayed effects** : Not available.**Potential chronic health effects**

Not available.

**Conclusion/Summary** : Based on available data, the classification criteria are not met.**General** : No known significant effects or critical hazards.**Carcinogenicity** : No known significant effects or critical hazards.**Mutagenicity** : No known significant effects or critical hazards.**Reproductive toxicity** : No known significant effects or critical hazards.**Other information** : Not available.**SECTION 12: Ecological information****12.1 Toxicity**

| Product/ingredient name        | Result                                    | Species   | Exposure |
|--------------------------------|---|---|----------|
| phosphoric acid<br>propan-2-ol | Acute LC50 138 mg/l                       | Fish  | 24 hours |
|                                | Acute LC50 1400 to 1950 mg/l Marine water | Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> | 48 hours |
|                                | Acute LC50 1400 mg/l                      | Fish - Western mosquitofish - <i>Gambusia affinis</i>             | 96 hours |
|                                | Acute LC50 9640 to 10000 mg/l Fresh water | Fish - Fathead minnow - <i>Pimephales promelas</i>                | 96 hours |
|                                | Acute LC50 4200 mg/l Fresh water          | Fish - Harlequinfish, red rasbora - <i>Rasbora heteromorpha</i>   | 96 hours |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.**12.2 Persistence and degradability**

| Product/ingredient name | Test      | Result                    | Dose   | Inoculum |
|-------------------------|-----------|---------------------------|--------|----------|
| propan-2-ol             | OECD 301E | 95 % - 19 days            | -      | -        |
|                         | -         | 53 % - Readily - 5 days   | -      | -        |
|                         | -         | >70 % - Readily - 10 days | 7 mg/l | -        |

**Conclusion/Summary** : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| propan-2-ol             | -                 | -          | Readily          |

**12.3 Bioaccumulative potential**

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| propan-2-ol             | 0,05               | -   | Low       |

**12.4 Mobility in soil****Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.**Mobility** : Rapidly lost by degradation and volatilisation.

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## SECTION 12: Ecological information

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.





**Hazardous waste** : Yes.

#### Waste catalogue

| Waste code | Waste designation               |
|------------|---------------------------------|
| 06 01 04*  | phosphoric and phosphorous acid |

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID  | ADN  | IMDG  | IATA   |
|--|--|--|---|--|
| <b>14.1 UN number or ID number</b>     | UN1805   | UN1805   | UN1805  | UN1805   |
| <b>14.2 UN proper shipping name</b>    | PHOSPHORIC ACID, SOLUTION  | PHOSPHORIC ACID, SOLUTION  | PHOSPHORIC ACID, SOLUTION   | PHOSPHORIC ACID, SOLUTION solution   |
| <b>14.3 Transport hazard class(es)</b> | 8<br>       | 8<br> | 8<br>   | 8<br>   |
| <b>14.4 Packing group</b>              | III  | III  | III   | III  |
| <b>14.5 Environmental hazards</b>      | No.  | No.  | No.   | No.  |
| <b>Additional information</b>          | <b>Hazard identification number</b> 80<br><b>Limited quantity</b> 5L<br><b>Tunnel code</b> (E) | <b>Remarks</b> : ≤ 5L:<br>Limited Quantity   | <b>Emergency schedules</b> F-A, S-B<br><b>Special provisions</b> 223<br><b>IMDG Code</b><br><b>Segregation group</b> SGG1 - Acids<br><b>Remarks</b> : ≤ 5L:<br>Limited Quantity -<br>IMDG 3.4 | <b>Quantity limitation</b><br>Passenger and Cargo Aircraft: 5 L.<br>Packaging instructions: 852.<br>Cargo Aircraft Only: 60 L. Packaging instructions: 856.<br>Limited Quantities - Passenger Aircraft: 1 L. Packaging |

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## SECTION 14: Transport information

|  |  |  |  |   |
|--|--|--|--|---|
|  |  |  |  | instructions: Y 841.<br><b>Special provisions</b><br>A3, A803 |
|--|--|--|--|---|

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

### UK (GB)/REACH

#### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed above the relevant limit.

##### Substances of very high concern

None of the components are listed above the relevant limit.

### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | %   | Designation [Usage] |
|-------------------------|-----|---------------------|
| Surfa-Etch 108          | ≥90 | 3                   |

**Labelling** : Not applicable.

### Other EU regulations

**VOC for Ready-for-Use Mixture** : Not applicable.

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

### Ozone depleting substances

Not listed.

### Prior Informed Consent (PIC)

Not listed.

### Persistent Organic Pollutants

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### EU regulations

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## SECTION 15: Regulatory information

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**CN code** : 2809 20 00 00

### Inventory list

**Australia** : All components are listed or exempted.  
**Canada** : All components are listed or exempted.  
**China** : All components are listed or exempted.  
**Eurasian Economic Union** : **Russian Federation inventory**: Not determined.  
**Japan** : **Japan inventory (CSCL)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.  
**New Zealand** : All components are listed or exempted.  
**Philippines** : All components are listed or exempted.  
**Republic of Korea** : All components are listed or exempted.  
**Taiwan** : Not determined.  
**Thailand** : Not determined.  
**Turkey** : Not determined.  
**United States** : Not determined.  
**Viet Nam** : Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = GB CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group

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**SECTION 16: Other information**

vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification**

| Classification     | Justification         |
|--------------------|-----------------------|
| Skin Corr. 1, H314 | On basis of test data |
| Eye Dam. 1, H318   | On basis of test data |

**Full text of abbreviated H statements**

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour.      |
| H290 | May be corrosive to metals.              |
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |
| H319 | Causes serious eye irritation.           |
| H336 | May cause drowsiness or dizziness.       |

**Full text of classifications**

|               |   |
|---------------|---|
| Acute Tox. 4  | ACUTE TOXICITY - Category 4                                   |
| Eye Dam. 1    | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                |
| Eye Irrit. 2  | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                |
| Flam. Liq. 2  | FLAMMABLE LIQUIDS - Category 2                                |
| Met. Corr. 1  | CORROSIVE TO METALS - Category 1                              |
| Skin Corr. 1  | SKIN CORROSION/IRRITATION - Category 1                        |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B                       |
| STOT SE 3     | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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**IMPORTANT NOTE:** The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

**MANUFACTURER'S DISCLAIMER:** the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.