# SAFETY DATA SHEET
# UNIVERSAL POWERWASH

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

### 1.1. Product identifier

**Product name** UNIVERSAL POWERWASH

**Internal identification** C375

**UFI** UFI: CH00-W0U5-J007-C8EJ

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

**Identified uses** Cleaning agent.

**Uses advised against** Use only for intended applications.

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

**Supplier**

ARROW SOLUTIONS
RAWDON ROAD,
MOIRA,
SWADLINCOTE,
DERBYSHIRE,
DE12 6DA,
ENGLAND
TEL: +44 (0)1283 221044
FAX: +44 (0)1283 225731
sales@arrowchem.com

### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 777 8505 330 (24 hrs).

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

**Physical hazards** Met. Corr. 1 - H290

**Health hazards** Skin Corr. 1A - H314 Eye Dam. 1 - H318

**Environmental hazards** Aquatic Chronic 3 - H412

### 2.2. Label elements

**Hazard pictograms**

**Signal word** Danger

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| | |
|---|---|
| **Hazard statements** | H290 May be corrosive to metals.<br>H314 Causes severe skin burns and eye damage.<br>H412 Harmful to aquatic life with long lasting effects. |
| **Precautionary statements** | P273 Avoid release to the environment.<br>P280 Wear protective clothing, gloves, eye and face protection.<br>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a POISON CENTER/ doctor.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| **UFI** | UFI: CH00-W0U5-J007-C8EJ |
| **Contains** | sodium hydroxide |
| **Detergent labelling** | < 5% amphoteric surfactants, < 5% cationic surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants |

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**sodium hydroxide** **5-10%**

CAS number: 1310-73-2 EC number: 215-185-5 REACH registration number: 01-2119457892-27-XXXX

**Classification**
Met. Corr. 1 - H290
Skin Corr. 1A - H314
Eye Dam. 1 - H318

**tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate** **1-5%**

CAS number: 51981-21-6 EC number: 257-573-7 REACH registration number: 01-2119493601-38-XXXX

**Classification**
Not Classified

**ISOTRIDECANOL ETHOXYLATE** **1-5%**

CAS number: 69011-36-5 EC number: 931-138-8

**Classification**
Acute Tox. 4 - H302
Eye Dam. 1 - H318

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| | | | |
|---|---|---|---|
| **β-ALANINE, N-(2-CARBOXYETHYL)-, N-COCO ALKYL DERIVS., DISODIUM SALTS** | | | **1-5%** |
| CAS number: 90170-43-7 | EC number: 290-476-8 | REACH registration number: 01-2119976233-35-XXXX | |
| **Classification**<br>Eye Irrit. 2 - H319 | | | |

| | | | |
|---|---|---|---|
| **Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides** | | | **<1%** |
| CAS number: 68424-85-1 | EC number: 939-350-2 | | |
| M factor (Acute) = 10 | M factor (Chronic) = 1 | | |
| **Classification**<br>Acute Tox. 4 - H302<br>Skin Corr. 1B - H314<br>Eye Dam. 1 - H318<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 | | | |

| | | | |
|---|---|---|---|
| **ethanol** | | | **<1%** |
| CAS number: 64-17-5 | EC number: 200-578-6 | REACH registration number: 01-2119457610-43-XXXX | |
| **Classification**<br>Flam. Liq. 2 - H225 | | | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information** Chemical burns must be treated by a physician. If medical advice is needed, have product container or label at hand. Show this Safety Data Sheet to the medical personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion** Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately.

**Skin contact** Rinse immediately with plenty of water. Get medical attention immediately.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention immediately.

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

**General information** Chemical burns must be treated by a physician.

**Inhalation** Coughing, chest tightness, feeling of chest pressure.

**Ingestion** May cause chemical burns in mouth and throat.

**Skin contact** Causes severe burns.

**Eye contact** Causes serious eye damage. Severe irritation, burning and tearing.

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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

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

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide ($CO_2$). Nitrous gases ($NO_x$).

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

## SECTION 6: Accidental release measures

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

**Personal precautions** Ensure procedures and training for emergency decontamination and disposal are in place. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Evacuate area. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage to prevent material damage. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean contaminated objects and areas thoroughly, observing environmental regulations. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Observe any occupational exposure limits for the product or ingredients. May be corrosive to metals. Avoid spilling. Avoid release to the environment. Wear protective clothing, gloves, eye and face protection. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Do not reuse empty containers. Do not empty into drains. Do not handle broken packages without protective equipment. Avoid contact with contaminated tools and objects. Wash skin thoroughly after handling.

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

**Storage precautions** Store at temperatures between 4°C and 40°C. Store in tightly-closed, original container.

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**Storage class** Corrosive storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

**Occupational exposure limits**

**sodium hydroxide**

Short-term exposure limit (15-minute): WEL 2 mg/m³

**ethanol**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³
WEL = Workplace Exposure Limit.

**sodium hydroxide (CAS: 1310-73-2)**

**DNEL**
Industry - Inhalation; Short term local effects: 1 mg/m³
Industry - Inhalation; Long term local effects: 1 mg/m³
Consumer - Inhalation; Short term local effects: 1 mg/m³

**tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (CAS: 51981-21-6)**

**DNEL**
Workers - Inhalation; Long term systemic effects: 7.3 mg/m³
Workers - Dermal; Long term systemic effects: 15,000 mg/kg/day
General population - Inhalation; Long term systemic effects: 1.8 mg/m³
General population - Dermal; Long term systemic effects: 7,500 mg/kg/day
General population - Oral; Long term systemic effects: 1.5 mg/kg/day

**Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides (CAS: 68424-85-1)**

**DNEL**
Industry - Dermal; Long term systemic effects: 5.7 mg/kg/day
Industry - Inhalation; Long term systemic effects: 3.96 mg/m³
Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day
Consumer - Dermal; Long term systemic effects: 3.4 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 1.64 mg/m³

**PNEC**
- Fresh water; .0009 mg/l
- marine water; .00096 mg/l
- Intermittent release; .00016 mg/l
- Sediment (Freshwater); 12.27 mg/kg
- Sediment (Marinewater); 13.09 mg/kg
- Soil; 7.0 mg/kg
- STP; 0.4 mg/l

**ethanol (CAS: 64-17-5)**

**DNEL**
Workers - Inhalation; Short term : 1900 mg/m³
Workers - Dermal; Long term systemic effects: 343 mg/kg/day
Workers - Inhalation; Long term : 950 mg/m³
Consumer - Inhalation; Short term : 950 mg/m³
Consumer - Dermal; Long term systemic effects: 206 mg/kg/day
Consumer - Inhalation; Long term : 114 mg/m³
Consumer - Oral; Long term systemic effects: 87 mg/kg/day

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**PNEC**

- Fresh water; 0.96 mg/l
- marine water; 0.79 mg/l
- Soil; 0.63 mg/kg
- STP; 580 mg/l
- Sediment (Freshwater); 3.6 mg/kg

## 8.2. Exposure controls

**Protective equipment**

**Appropriate engineering controls**

Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Chemical splash goggles or face shield.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. When used with mixtures, the protection time of gloves cannot be accurately estimated. Frequent changes are recommended. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex). Neoprene. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application.

**Other skin and body protection**

Provide eyewash station.

**Hygiene measures**

Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

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| | |
|---|---|
| **Respiratory protection** | Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405. Gas and combination filter cartridges should comply with European Standard EN14387. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Particulate filters should comply with European Standard EN143. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. Dust and mist filter. |
| **Environmental exposure controls** | Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Store in a demarcated bunded area to prevent release to drains and/or watercourses. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance** | Liquid. |
| **Colour** | Colourless to pale yellow. |
| **Odour** | Detergent. |
| **pH** | pH (concentrated solution): >13.0 |
| **Melting point** | Not determined. |
| **Initial boiling point and range** | Not determined. |
| **Flash point** | Not applicable. |
| **Evaporation rate** | Not applicable. |
| **Flammability (solid, gas)** | Not applicable. |
| **Upper/lower flammability or explosive limits** | Not applicable. |
| **Other flammability** | Not applicable. |
| **Vapour pressure** | Not determined. |
| **Relative density** | ~ 1.11 @ 25°C |
| **Solubility(ies)** | Soluble in water. |
| **Partition coefficient** | Not determined. |
| **Auto-ignition temperature** | Not applicable. |
| **Decomposition Temperature** | Not applicable. |
| **Viscosity** | Not determined. |
| **Explosive properties** | There are no chemical groups present in the product that are associated with explosive properties. |
| **Oxidising properties** | There are no chemical groups present in the product that are associated with oxidising properties. |

### 9.2. Other information

# UNIVERSAL POWERWASH

**Other information** Not determined.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Acids.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not determined.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with acids.

### 10.5. Incompatible materials

**Materials to avoid** Acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity - oral**

**Notes (oral $LD_{50}$)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 27,578.6

**Acute toxicity - dermal**

**Notes (dermal $LD_{50}$)** Based on available data the classification criteria are not met.

**Acute toxicity - inhalation**

**Notes (inhalation $LC_{50}$)** Based on available data the classification criteria are not met.

**Skin corrosion/irritation**

**Skin corrosion/irritation** Causes severe burns.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Causes serious eye damage.

**Respiratory sensitisation**

**Respiratory sensitisation** Based on available data the classification criteria are not met.

**Skin sensitisation**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

**Genotoxicity - in vitro** Does not contain any substances known to be mutagenic.

**Carcinogenicity**

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

**Reproductive toxicity**

**Reproductive toxicity - fertility** Does not contain any substances known to be toxic to reproduction.

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**Specific target organ toxicity - single exposure**

| | |
|---|---|
| **STOT - single exposure** | Based on available data the classification criteria are not met. |

**Specific target organ toxicity - repeated exposure**

| | |
|---|---|
| **STOT - repeated exposure** | Based on available data the classification criteria are not met. |

**Aspiration hazard**

| | |
|---|---|
| **Aspiration hazard** | Not anticipated to present an aspiration hazard, based on chemical structure. |

| | |
|---|---|
| **Inhalation** | Coughing, chest tightness, feeling of chest pressure. |
| **Ingestion** | May cause chemical burns in mouth and throat. |
| **Skin contact** | Causes severe burns. |
| **Eye contact** | Causes serious eye damage. |
| **Acute and chronic health hazards** | Causes severe burns. Corneal damage. |
| **Route of exposure** | Not specific |
| **Target organs** | No specific target organs known. |
| **Medical symptoms** | Chemical burns. |

**Toxicological information on ingredients.**

**tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 2,001.0 |
| **Species** | Rat |
| **ATE oral (mg/kg)** | 2,001.0 |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 2,000.1 |
| **Species** | Rat |
| **ATE dermal (mg/kg)** | 2,000.1 |

**ISOTRIDECANOL ETHOXYLATE**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 500.0 |
| **Species** | Rat |
| **ATE oral (mg/kg)** | 500.0 |

**Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides**

**Acute toxicity - oral**

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| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 397.5 |
| **Species** | Rat |
| **ATE oral (mg/kg)** | 397.5 |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 3,412.0 |
| **Species** | Rabbit |

**ethanol**

**Acute toxicity - inhalation**

| | |
|---|---|
| **Acute toxicity inhalation ($LC_{50}$ vapours mg/l)** | 124.7 |
| **ATE inhalation (vapours mg/l)** | 124.7 |

**Specific target organ toxicity - repeated exposure**

| | |
|---|---|
| **STOT - repeated exposure** | NOAEL 1730 mg/kg, Oral, |
| **Target organs** | Gastro-intestinal tract Liver |

## SECTION 12: Ecological information

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

**12.1. Toxicity**

**Acute aquatic toxicity**

**Acute toxicity - fish** Not determined.

**Chronic aquatic toxicity**

**Chronic toxicity - fish early life stage** Not determined.

**Ecological information on ingredients.**

**sodium hydroxide**

**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - fish** | LC50, 48 hours: ~ 145 mg/l, Poecilia reticulata (Guppy) |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: ~ 76 mg/l, Daphnia magna |

**tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate**

**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - fish** | LC50, 96 hours: > 100 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: > 100 mg/l, Daphnia magna |

**ISOTRIDECANOL ETHOXYLATE**

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**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - fish** | $LC_{50}$, 96 hours: 1 - 100 mg/l, Fish |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 1 - 100 mg/l, Daphnia magna |

**β-ALANINE, N-(2-CARBOXYETHYL)-, N-COCO ALKYL DERIVS., DISODIUM SALTS**

**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 97 mg/l, Daphnia magna |

**Quaternary ammonium compounds, benzyl-C12-16 (even numbered)-alkyldimethyl, chlorides**

**Acute aquatic toxicity**

| | |
|---|---|
| **LE(C)$_{50}$** | 0.01 < L(E)C50 ≤ 0.1 |
| **M factor (Acute)** | 10 |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 0.03 mg/l mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, 96 hours: ~ 0.06 mg/l, Selenastrum capricornutum |

**Chronic aquatic toxicity**

| | |
|---|---|
| **M factor (Chronic)** | 1 |

**ethanol**

**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - fish** | LC50, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe)<br>$LC_{50}$, 96 hours: 11.000 mg/l, Fish |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 12.34 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, hours: mg/l, Selenastrum capricornutum |

## 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient** Not determined.

## 12.4. Mobility in soil

**Mobility** The product is soluble in water.

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

## 12.6. Other adverse effects

**Other adverse effects** Not determined.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

## SECTION 14: Transport information

**General** For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

**Special Provisions note**

### 14.1. UN number

**UN No. (ADR/RID)** 1760

**UN No. (IMDG)** 1760

**UN No. (ICAO)** 1760

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, N.O.S. (sodium hydroxide)

**Proper shipping name (IMDG)** CORROSIVE LIQUID, N.O.S. (sodium hydroxide)

**Proper shipping name (ICAO)** CORROSIVE LIQUID, N.O.S. (sodium hydroxide)

### 14.3. Transport hazard class(es)

**ADR/RID class** 8

**IMDG class** 8

**ICAO class/division** 8

**Transport labels**


### 14.4. Packing group

**ADR/RID packing group** II

**IMDG packing group** II

**ICAO packing group** II

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

**Tunnel restriction code** (E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

# UNIVERSAL POWERWASH

## SECTION 15: Regulatory information

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

**National regulations** Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation** Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**Guidance** Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**Abbreviations and acronyms used in the safety data sheet**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
$EC_{50}$: 50% of maximal Effective Concentration.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
$LC_{50}$: Lethal Concentration to 50 % of a test population.
$LD_{50}$: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
UN: United Nations.
vPvB: Very Persistent and Very Bioaccumulative.

**Classification abbreviations and acronyms**

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Eye Dam. = Serious eye damage
Eye Irrit. = Eye irritation
Flam. Liq. = Flammable liquid
Met. Corr. = Corrosive to metals
Skin Corr. = Skin corrosion

**Classification procedures according to Regulation (EC) 1272/2008** Met. Corr. 1 - H290: Expert judgement. Skin Corr. 1A - H314: Calculation method. Eye Dam. 1 - H318: Calculation method. Aquatic Chronic 3 - H412: Calculation method.

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 09/12/2020

**Revision** 4.0

**Supersedes date** 06/11/2018

# UNIVERSAL POWERWASH

**SDS number** 16526

**Hazard statements in full**

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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.