

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

1.1. Product identifier

Product name **POWERCLEAN**
Product No. **0603**

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

Identified uses Hard surface cleaner

1.3. Details of the supplier of the safety data sheet

Selden Research Limited t : 01298 26226
Staden Lane
Ashbourne Road f : 01298 26540
Buxton e : safety@selden.co.uk
Derbyshire
SK17 9RZ
United Kingdom

1.4. Emergency telephone number

01298 26226

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (67/548/EEC) C;R34.

2.2. Label elements

Contains SODIUM HYDROXIDE
Detergent Labelling: < 5% amphoteric surfactants
< 5% non-ionic surfactants

Labelling



Corrosive (C)

Risk Phrases R34 Causes burns.
Safety Phrases S1/2 Keep locked up and out of the reach of children.
S23 Do not breathe vapour/spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell
Seek medical advice immediately (show label where possible).
S51 Use only in well-ventilated areas.

2.3. Other hazards

No other hazards known., This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not Applicable

3.2. Mixtures

| | | |
|--|----------------------------|--|
| 2-(2-BUTOXYETHOXY)ETHANOL CAS-No.: 112-34-5 Classification (EC 1272/2008) Eye irritation, category 2 - H319 | EEC (EINECS) No. 203-961-6 | 1-5% Classification (67/548/EEC) Xi;R36 |
| 2-BUTOXYETHANOL CAS-No.: 111-76-2 Classification (EC 1272/2008) Acute toxicity, category 4 - inhalation - H332 Acute toxicity, category 4 - Dermal - H312 Acute toxicity, category 4 - Oral - H302 Eye irritation, category 2 - H319 Skin irritation, category 2 - H315 | EEC (EINECS) No. 203-905-0 | 1-5% Classification (67/548/EEC) Xn;R20/21/22 Xi;R36/38 |
| Alcoholic Ethoxylate CAS-No.: 160901-19-9 Classification (EC 1272/2008) Acute toxicity, category 4 - Oral - H302 Serious eye damage, category 1 - H318 | EEC (EINECS) No. | 1-5% Classification (67/548/EEC) Xn;R22 Xi;R41 |
| SODIUM HYDROXIDE CAS-No.: 1310-73-2 Classification (EC 1272/2008) Skin corrosion, categories 1A, 1B, 1C - H314 | EEC (EINECS) No. 215-185-5 | 1-5% Classification (67/548/EEC) C;R35 |

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 | CAUTION! First Aid personnel must be aware of own risk of burns., Chemical burns must be dealt with immediately, do not delay. |
| Inhalation | Remove victim immediately from source of exposure., Provide rest, warmth and fresh air., If breathing stops, provide artificial respiration., Get medical attention if any discomfort continues. |
| Ingestion | DO NOT INDUCE VOMITING!, Rinse mouth thoroughly., Drink plenty of water., Get medical attention immediately! |
| Skin contact | Immediately remove contaminated clothing., Rinse immediately with plenty of water., Continue to rinse for at least 15 minutes., Get medical attention immediately! |
| Eye contact | Promptly wash eyes with plenty of water while lifting the eye lids., Continue to rinse for at least 15 minutes and get medical attention. |

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

| | |
|--------------|---|
| Inhalation | May cause damage to mucous membranes in nose, throat, lungs and bronchial system. |
| Ingestion | Causes burns., Harmful if swallowed. |
| Skin contact | Causes burns. |
| Eye contact | Causes burns., Risk of serious damage to eyes. |

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

| | |
|---------------------|---|
| Extinguishing media | The product is non-combustible., Use fire-extinguishing media appropriate for surrounding materials., Use:, Dry chemicals, sand, dolomite etc., Foam., Water spray. |
|---------------------|---|

5.2. Special hazards arising from the substance or mixture

Unsuitable extinguishing media

5.3. Advice for firefighters

| | |
|----------------------------------|--|
| Special Fire Fighting Procedures | Self contained breathing apparatus and full protective clothing must be worn in case of fire. Use water to keep fire exposed containers cool and disperse vapours. |
|----------------------------------|--|

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8.

6.2. Environmental precautions

Any spillage needs to be contained and not allowed to enter water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment., Absorb in vermiculite, dry sand or earth and place into containers., Collect spillage in containers, seal securely and deliver for disposal according to local regulations., Inform Authorities if large amounts are involved.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Store separated from: , Acids.

7.3. Specific end use(s)

See product label for detailed usage and instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Name | STD | TWA - 8 Hrs | STEL - 15 Min | Notes |
|---------------------------|-----|------------------|-------------------|-------|
| 2-(2-BUTOXYETHOXY)ETHANOL | WEL | 10 ppm67.5 mg/m3 | 15 ppm101.2 mg/m3 | |
| 2-BUTOXYETHANOL | WEL | 25 ppm(Sk) | 50 ppm(Sk) | |
| SODIUM HYDROXIDE | WEL | | 2 mg/m3 | |

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Use protective gloves.

Eye protection

Wear full-face visor or shield.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--------------------------|---------------------------|
| Appearance | Clear, Liquid |
| Colour | Colourless. |
| Odour | Mild (or faint), Solvent. |
| Relative density | 1.049 - 1.059 @ 20 °C |
| pH-Value, Conc. Solution | >13.0 |

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal temperature conditions.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

None known

10.4. Conditions to avoid

Avoid contact with acids.

10.5. Incompatible materials

Strong acids., Reacts strongly with light metals such as aluminium and zinc, producing hydrogen which is Highly Flammable.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

| | |
|---------------------------|--|
| Toxicological information | No toxicological data is available for this mixture, however data can be provided for specific raw materials upon request. |
| Inhalation | May cause damage to mucous membranes in nose, throat, lungs and bronchial system. |
| Ingestion | Causes burns., Harmful if swallowed. |
| Skin contact | Causes burns. |
| Eye contact | Causes burns., Risk of serious damage to eyes. |

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not regarded as dangerous for the environment.

12.2. Persistence and degradability

| | |
|---------------|---|
| Degradability | The surfactants contained within the product comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004. |
|---------------|---|

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

| | |
|-----------|---|
| Mobility: | The product contains substances, which are water soluble and may spread in water systems. |
|-----------|---|

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or PvB substances

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

| | |
|----------------------|------|
| UN No. (ADR/RID/ADN) | 1760 |
| UN No. (IMDG) | 1760 |
| UN No. (ICAO) | 1760 |

14.2. UN proper shipping name

Proper Shipping Name: CORROSIVE LIQUID,NOS (Sodium hydroxide)

14.3. Transport hazard class(es)

| | |
|---------------------|--------------------------------|
| ADR/RID/ADN Class | 8 |
| ADR/RID/ADN Class | Class 8: Corrosive substances. |
| IMDG Class | 8 |
| ICAO Class/Division | 8 |

Transport Labels



14.4. Packing group

| | |
|---------------------------|-----|
| ADR/RID/ADN Packing group | III |
| IMDG Packing group | III |
| ICAO Packing group | III |

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 MARPOL73/78 and the IBC Code

Not relevant

SECTION 15: REGULATORY INFORMATION

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

| | |
|---------------------------|--|
| UK Regulatory References | The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. |
| Environmental Listing | Rivers (Prevention of Pollution) Act 1961., Control of Pollution (Special Waste Regulations) Act 1980. |
| Statutory Instruments | The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716)., Control of Substances Hazardous to Health. |
| Approved Code Of Practice | Classification and Labelling of Substances and Preparations Dangerous for Supply. |
| Guidance Notes | Workplace Exposure Limits EH40., CHIP for everyone HSG(108). System of specific information relating to Dangerous Preparations. 2001/58/EC., Dangerous Preparations Directive 1999/45/EC., 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments., 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. |
| EU Legislation | |
| National Regulations | The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG 2007). |

15.2. Chemical Safety Assessment

No chemical assessment has been carried out as this Safety Data Sheet is for a mixture

SECTION 16: OTHER INFORMATION

General information

The following risk phrases relate to the raw materials in the product and not the product itself:-

Revision Comments

Safety Data Sheet revised to be in accordance with EU Regulation No 453/2010 - REACH Regulations.

Revision Date 04/02/2013

Revision 11

Risk Phrases In Full R20/21/22 Harmful by inhalation, in contact with skin and if swallowed., R36/38 Irritating to eyes and skin. | R35 Causes severe burns. | R36 Irritating to eyes. | R22 Harmful if swallowed., R41 Risk of serious damage to eyes. |

Hazard Statements In Full

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |