

Safety  
first

Work

# WORK SAFETY

Protection

Ris

## Solid Power With Etchguard

Safety Data Sheet

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Connect online  
@ Virtue Plus

**Section: 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SOLID POWER

Other means of identification : Not applicable.

Recommended use : Machine Warewashing Detergent

Product dilution information : 0.086 % - 0.21 %

Company : ECOLAB PTY LTD  
2 Drake Avenue  
Macquarie Park, NSW Australia 2113  
1 800 022 002

Emergency telephone number : 1800 205 506, +64 7 958 2372

Issuing date : 01.06.2016

**Section: 2. HAZARDS IDENTIFICATION**
**GHS Classification**
**Product AS SOLD**

Skin corrosion/irritation : Category 1A

Serious eye damage/eye irritation : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element**
**Product AS SOLD**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling.

**Response:**  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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/ physician.

**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Product AT USE DILUTION**

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## SOLID POWER

Precautionary Statements : **Prevention:**  
Wash hands thoroughly after handling.  
**Response:**  
Get medical advice/ attention if you feel unwell.  
**Storage:**  
Store in accordance with local regulations.

### Product AS SOLD

Other hazards : None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product AS SOLD

Pure substance/mixture : Mixture

| Chemical Name          | CAS-No.   | Concentration: (%) |
|------------------------|-----------|--------------------|
| sodium hydroxide       | 1310-73-2 | 30 - 60            |
| Sodium Carbonate(soda) | 497-19-8  | 10 - 30            |

### Product AT USE DILUTION

No hazardous ingredients

## Section: 4. FIRST AID MEASURES

### Product AS SOLD

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed : Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766).  
  
Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

### Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

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|              |  |
|--------------|--|
| If swallowed | : Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766).<br><br>Rinse mouth. Get medical attention if symptoms occur. |
| If inhaled   | : Get medical attention if symptoms occur.   |

#### Section: 5. FIREFIGHTING MEASURES

##### Product AS SOLD

|   |   |
|---|---|
| Suitable extinguishing media                  | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Unsuitable extinguishing media                | : None known.   |
| Specific hazards during firefighting          | : Exposure to decomposition products may be a hazard to health.   |
| Hazardous combustion products                 | : Decomposition products may include the following materials:<br>Carbon oxides<br>metal oxides  |
| Special protective equipment for firefighters | : Use personal protective equipment.  |
| Specific extinguishing methods                | : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes. |
| Hazchem Code                                  | : 2W  |

#### Section: 6. ACCIDENTAL RELEASE MEASURES

##### Product AS SOLD

|   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions   | : Do not allow contact with soil, surface or ground water.   |
| Methods and materials for containment and cleaning up               | : Sweep up and shovel into suitable containers for disposal.   |

##### Product AT USE DILUTION

|   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Refer to protective measures listed in sections 7 and 8.   |
| Environmental precautions   | : No special environmental precautions required.   |
| Methods and materials for containment and cleaning up               | : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with |

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water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### Section: 7. HANDLING AND STORAGE

#### Product AS SOLD

Advice on safe handling : Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing.

Conditions for safe storage : Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : -10 °C to 50 °C

#### Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. For personal protection see section 8.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

##### Components with workplace control parameters

| Components       | CAS-No.   | Form of exposure | Permissible concentration | Basis  |
|------------------|-----------|------------------|---------------------------|--------|
| sodium hydroxide | 1310-73-2 | Peak limit       | 2 mg/m <sup>3</sup>       | AU OEL |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hand protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Skin protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Respiratory protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

#### Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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#### Personal protective equipment

|                        |   |
|------------------------|---|
| Eye protection         | : No special protective equipment required.                       |
| Hand protection        | : No special protective equipment required.                       |
| Skin protection        | : No special protective equipment required.                       |
| Respiratory protection | : No personal respiratory protective equipment normally required. |

#### Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

|   | Product AS SOLD                                 | Product AT USE DILUTION |
|---|---|-------------------------|
| Appearance                              | : Cast Solid                                    | liquid                  |
| Colour                                  | : opaque, light blue                            | colourless              |
| Odour                                   | : slight  | odourless               |
| pH                                      | : 12.0 - 13.0, 1 %                              | 11.2 - 11.7             |
| Flash point                             | : Not applicable., Does not sustain combustion. |                         |
| Odour Threshold                         | : no data available                             |                         |
| Melting point/freezing point            | : no data available                             |                         |
| Initial boiling point and boiling range | : no data available                             |                         |
| Evaporation rate                        | : no data available                             |                         |
| Flammability (solid, gas)               | : no data available                             |                         |
| Upper explosion limit                   | : no data available                             |                         |
| Lower explosion limit                   | : no data available                             |                         |
| Vapour pressure                         | : no data available                             |                         |
| Relative vapour density                 | : no data available                             |                         |
| Relative density                        | : no data available                             |                         |
| Water solubility                        | : soluble                                       |                         |
| Solubility in other solvents            | : no data available                             |                         |
| Partition coefficient: n-octanol/water  | : no data available                             |                         |
| Auto-ignition temperature               | : no data available                             |                         |
| Thermal decomposition                   | : no data available                             |                         |
| Viscosity, kinematic                    | : no data available                             |                         |
| Explosive properties                    | : no data available                             |                         |
| Oxidizing properties                    | : no data available                             |                         |
| Molecular weight                        | : no data available                             |                         |
| VOC                                     | : no data available                             |                         |

#### Section: 10. STABILITY AND REACTIVITY

##### Product AS SOLD

|                    |                                   |
|--------------------|-----------------------------------|
| Chemical stability | : Stable under normal conditions. |
|--------------------|-----------------------------------|

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|                                    |  |
|------------------------------------|--|
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use.                                  |
| Conditions to avoid                | : None known.  |
| Incompatible materials             | : Metals<br>Organic materials<br>Acids   |
| Hazardous decomposition products   | : Decomposition products may include the following materials:<br>Carbon oxides<br>metal oxides |

### Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

|                  |   |
|------------------|---|
| Eyes             | : Causes serious eye damage.                                  |
| Skin             | : Causes severe skin burns.                                   |
| Ingestion        | : Causes digestive tract burns.                               |
| Inhalation       | : May cause nose, throat, and lung irritation.                |
| Chronic Exposure | : Health injuries are not known or expected under normal use. |

##### Product AT USE DILUTION

|                  |   |
|------------------|---|
| Eyes             | : Health injuries are not known or expected under normal use. |
| Skin             | : Health injuries are not known or expected under normal use. |
| Ingestion        | : Health injuries are not known or expected under normal use. |
| Inhalation       | : Health injuries are not known or expected under normal use. |
| Chronic Exposure | : Health injuries are not known or expected under normal use. |

#### Experience with human exposure

##### Product AS SOLD

|              |                                 |
|--------------|---------------------------------|
| Eye contact  | : Redness, Pain, Corrosion      |
| Skin contact | : Redness, Pain, Corrosion      |
| Ingestion    | : Corrosion, Abdominal pain     |
| Inhalation   | : Respiratory irritation, Cough |

##### Product AT USE DILUTION

|              |                                  |
|--------------|----------------------------------|
| Eye contact  | : No symptoms known or expected. |
| Skin contact | : No symptoms known or expected. |
| Ingestion    | : No symptoms known or expected. |

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Inhalation : No symptoms known or expected.

#### Toxicity

##### Product AS SOLD

##### Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

##### Components

Acute oral toxicity : Sodium Carbonate(soda)  
LD50 rat: 2,800 mg/kg

### Section: 12. ECOLOGICAL INFORMATION

##### Product AS SOLD

##### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

##### Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

##### Components

Toxicity to fish : Sodium Carbonate(soda)  
96 h LC50 *Lepomis macrochirus* (Bluegill sunfish): 300 mg/l

##### Components

Toxicity to daphnia and other aquatic invertebrates : sodium hydroxide  
48 h EC50: 40 mg/l

Sodium Carbonate(soda)  
48 h EC50 *Ceriodaphnia* (water flea): 213.5 mg/l



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#### Persistence and degradability

no data available

#### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### Other adverse effects

no data available

### Section: 13. DISPOSAL CONSIDERATIONS

#### Product AS SOLD

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

#### Product AT USE DILUTION

Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

### Section: 14. TRANSPORT INFORMATION

#### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (ADG)

UN number : 1823  
Description of the goods : SODIUM HYDROXIDE, SOLID  
Class : 8  
Packing group : II  
Hazchem Code : 2W  
Environmentally hazardous : No

#### Sea transport (IMDG/IMO)

UN number : 1823  
Description of the goods : SODIUM HYDROXIDE, SOLID  
Class : 8  
Packing group : II  
Marine pollutant : No

### Section: 15. REGULATORY INFORMATION

#### National regulatory information

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Standard for the Uniform : Schedule 6  
Scheduling of Medicines and  
Poisons

**The components of this product are reported in the following inventories:**

**United States TSCA Inventory :**  
On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**  
All components of this product are on the Canadian DSL.

**Australia. Industrial Chemical (Notification and Assessment) Act :**  
On the inventory, or in compliance with the inventory

**New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand :**  
not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI) :**  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**  
not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

**China Inventory of Existing Chemical Substances :**  
not determined

## Section: 16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)  
IARC: (International Agency for Research on Cancer)  
US. National Toxicology Program (NTP) Report on Carcinogens  
ECHA List of Publishable Substances Registered  
EU HPVCs (High Production Volume Chemicals)

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Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.