SAFETY DATA SHEET
SMARTPOWER Dishmachine Detergent

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SMARTPOWER Dishmachine Detergent

Other means of identification : Not applicable.

Recommended use : Machine Warewashing Detergent

Product dilution information : 0.1 % - 0.25 %

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 : 02.05.2016

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD
Serious eye damage/eye irritation : Category 2A

Product AT USE DILUTION
Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD
Hazard pictograms : 

Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : Prevention:
Wash skin thoroughly after handling.
Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Product AT USE DILUTION
Precautionary Statements : Prevention:
Wash hands thoroughly after handling.
Response:
Get medical advice/attention if you feel unwell.
Storage:
Store in accordance with local regulations.
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Product AS SOLD
Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD
Pure substance/mixture : Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration: (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Carbonate(soda)</td>
<td>497-19-8</td>
<td>60 - 100</td>
</tr>
</tbody>
</table>

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.

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

If swallowed : Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766).

Rinse mouth. Get medical attention if symptoms occur.

If inhaled : 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.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766).

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.

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**SMARTPOWER Dishmachine Detergent**

| **Unsuitable extinguishing media** | None known. |
| **Specific hazards during firefighting** | Not flammable or combustible. |
| **Hazardous combustion products** | Decomposition products may include the following materials: Carbon oxides, nitrogen oxides (NOx) |
| **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. |

**Section: 6. ACCIDENTAL RELEASE MEASURES**

**Product AS SOLD**

- **Personal precautions, protective equipment and emergency procedures**: 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 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. Avoid contact with skin and eyes. Wash hands thoroughly after handling.
- **Conditions for safe storage**: Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- **Storage temperature**: 0 °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**

Contains no substances with occupational exposure limit values.

**Engineering measures**

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

#### 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. Wash face, hands and any exposed skin thoroughly after handling.

#### Product AT USE DILUTION

**Engineering measures**

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

#### 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

<table>
<thead>
<tr>
<th></th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Extruded solid.</td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Opaque, off-white</td>
<td>colourless</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Odourless</td>
<td>odourless</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>10.3 - 11.3, 1 %</td>
<td>9.5 - 11.0</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Odour Threshold</strong></td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
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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: The substance or mixture is not classified as oxidizing.
Molecular weight: no data available
VOC: no data available

Section: 10. STABILITY AND REACTIVITY

Product AS SOLD
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: None known.
Incompatible materials: Acids
Hazardous decomposition products: Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Eye contact, Skin contact
Potential Health Effects

Product AS SOLD
Eyes: Causes serious eye irritation.
Skin: Health injuries are not known or expected under normal use.
Ingestion: Health injuries are not known or expected under normal use.
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**SMARTPOWER Dishmachine Detergent**

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Health injuries are not known or expected under normal use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Exposure</td>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Product AT USE DILUTION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eyes</strong></td>
</tr>
<tr>
<td><strong>Skin</strong></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
</tr>
<tr>
<td><strong>Chronic Exposure</strong></td>
</tr>
</tbody>
</table>

**Experience with human exposure**

<table>
<thead>
<tr>
<th><strong>Product AS SOLD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Product AT USE DILUTION</strong></th>
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<tr>
<td><strong>Eye contact</strong></td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
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</tbody>
</table>

**Toxicity**

<table>
<thead>
<tr>
<th><strong>Product AS SOLD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product</strong></td>
</tr>
<tr>
<td><strong>Acute oral toxicity</strong></td>
</tr>
<tr>
<td><strong>Acute inhalation toxicity</strong></td>
</tr>
<tr>
<td><strong>Acute dermal toxicity</strong></td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
</tr>
<tr>
<td><strong>Reproductive effects</strong></td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
</tr>
<tr>
<td><strong>STOT - single exposure</strong></td>
</tr>
</tbody>
</table>
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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 Carbonate(soda)
   48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l

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)
Not dangerous goods

Sea transport (IMDG/IMO)
Not dangerous goods

Section: 15. REGULATORY INFORMATION

National regulatory information
Standard for the Uniform Scheduling of Medicines and Poisons: No poison schedule number allocated

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

United States TSCA Inventory: All components are listed or exempted.

Canadian Domestic Substances List (DSL): This product contains one or several components that are not on the Canadian DSL nor NDSL.

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: On the inventory, or in compliance with the inventory

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: On the inventory, or in compliance with the inventory

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)
SAFETY DATA SHEET

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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)

Issuing date : 02.05.2016
Date of first issue : 02.05.2016
version : 1.0
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.