Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CTR LAUNDRY DETERGENT
Other means of identification : Not applicable.
Recommended use : Laundry detergent
Restrictions on use : Reserved for industrial and professional use.
Product dilution information : 0.025 % - 0.15 %
Company : ECOLAB PTY LTD (A.B.N. 59 000 449 990)
          2 Drake Avenue
          Macquarie Park, NSW Australia 2113
          1 800 022 002
Emergency telephone number : 1 800 124 170
Issuing date : 11.02.2015

Section: 2. HAZARDS IDENTIFICATION

Product AS SOLD
Not classified as hazardous according to the criteria of Safe Work Australia nor classified as dangerous goods according to the ADG Code.

Product AT USE DILUTION
Not classified as hazardous according to the criteria of Safe Work Australia nor classified as dangerous goods according to the ADG Code.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD
Pure substance/mixture : Mixture
No hazardous ingredients

Product AT USE DILUTION
No hazardous ingredients

Section: 4. FIRST AID MEASURES

Product AS SOLD
In case of eye contact : Rinse with plenty of water.
In case of skin contact : Rinse with plenty of water.
If swallowed : Rinse mouth with water.
                      Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766).
If inhaled : Get medical attention if symptoms occur.
Protection of first-aiders: No special precautions are necessary for first aid responders.

Notes to physician: No specific measures identified.

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 with water. 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.
- 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
- 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.

**Section: 6. ACCIDENTAL RELEASE MEASURES**

**Product AS SOLD**
- 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.
MATERIAL SAFETY DATA SHEET

CTR LAUNDRY DETERGENT

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

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

Storage temperature:
0 °C to 50 °C

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:
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.

Hygiene measures:
Wash hands before breaks and immediately after handling the product.

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.
MATERIAL SAFETY DATA SHEET

CTR LAUNDRY DETERGENT

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>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>clear, blue</td>
</tr>
<tr>
<td>Odour</td>
<td>slight</td>
</tr>
<tr>
<td>pH</td>
<td>6.0 - 8.0, 100 %</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable., Does not sustain combustion.</td>
</tr>
<tr>
<td>Odour Threshold</td>
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</tr>
<tr>
<td>Melting point/freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
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</tr>
<tr>
<td>Relative vapour density</td>
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</tr>
<tr>
<td>Relative density</td>
<td>0.99 - 1.01</td>
</tr>
<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Solubility in other solvents</td>
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</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>no data available</td>
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<tr>
<td>Viscosity, kinematic</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
<td>The substance or mixture is not classified as oxidizing.</td>
</tr>
<tr>
<td>Molecular weight</td>
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</tr>
<tr>
<td>VOC</td>
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</tbody>
</table>

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 : None known.
Hazardous decomposition products : Decomposition products may include the following materials: Carbon oxides

Section: 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

Product AS SOLD
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.

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 : No symptoms known or expected.
Skin contact : No symptoms known or expected.
Ingestion : No symptoms known or expected.
Inhalation : No symptoms known or expected.

Product AT USE DILUTION
Eye contact : No symptoms known or expected.
Skin contact : No symptoms known or expected.
Ingestion : No symptoms known or expected.
Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD
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

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

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

**Product AT USE DILUTION**
Not intended for transport.

**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**:
not determined

**Canadian Domestic Substances List (DSL)**:
This product contains the following 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)**:
On the inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)**:
On the inventory, or in compliance with the inventory

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

**Section: 16. OTHER INFORMATION**
Sources of key data used to compile the Material 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)

Issuing date : 11.02.2015
Date of first issue : 11.02.2015
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 MSDS.

The information provided in this Material 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 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.