

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

Product name : TURBO DESTAINER

Other means of identification : Not applicable.

Recommended use : Bleach

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.04 % - 0.2 %  
UP TO 2ML/L IN WATER

Company : Ecolab New Zealand  
2 Daniel Place  
Te Rapa, Hamilton New Zealand  
+64 7 958 2319

Emergency telephone number : 0800 243 622 (0800 CHEMCALL)

Issuing date : 28.07.2017

**Section: 2. HAZARDS IDENTIFICATION**
**HSNO Hazard classification**
**Product AS SOLD**

Skin corrosion : 8.2 C  
 Serious eye damage : 8.3 A  
 Aquatic toxicity (Acute or Chronic) : 9.1 A

**Product AT USE DILUTION**

Aquatic toxicity (Acute or Chronic) : 9.1 D

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

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.  
Very toxic to aquatic life.

Precautionary Statements : **Prevention:**  
Do not breathe dusts or mists. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN

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## TURBO DESTAINER

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. Specific treatment (see supplemental first aid instructions on this label). Wash contaminated clothing before reuse. Collect spillage.

**Storage:**

Store locked up.

**Disposal:**

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

### Product AT USE DILUTION

Hazard Statements : May cause long lasting harmful effects to aquatic life.

Precautionary Statements : **Prevention:**  
Avoid release to the environment.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

### 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 hypochlorite | 7681-52-9 | 10 - 30            |

### Product AT USE DILUTION

| Chemical Name       | CAS-No.   | Concentration: (%) |
|---------------------|-----------|--------------------|
| sodium hypochlorite | 7681-52-9 | < 0.1              |

## 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 : 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.

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## TURBO DESTAINER

### 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.
- 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:  
metal oxides  
Halogenated compounds
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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 : 2X

### 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 : 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.

### Product AT USE DILUTION

- Personal precautions, protective equipment and : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

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## TURBO DESTAINER

emergency procedures

- Environmental precautions : Do not allow contact with soil, surface or ground water.
- 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.

### Product AS SOLD Emergency Management Trigger Levels

The following trigger level applies:

- Emergency Plan : 100 L
- Signage : 100 L

## 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. Mixing this product with acid or ammonia releases chlorine gas.
- 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 : 0 °C to 40 °C

### Product AT USE DILUTION

- Advice on safe handling : Wash hands thoroughly after handling.
- 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 : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

- Eye protection : Safety goggles  
Face-shield
- Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Neoprene/natural rubber blend  
Nitrile  
PVC

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Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

- Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and maintenance of respiratory protective equipment as applicable.
- 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.

### 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. Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and maintenance of respiratory protective equipment as applicable.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

|   | Product AS SOLD                                 | Product AT USE DILUTION |
|---|---|-------------------------|
| Appearance                              | : liquid  | liquid                  |
| Colour                                  | : light yellow                                  | light yellow            |
| Odour                                   | : Chlorine                                      | Chlorine                |
| pH                                      | : 12.0 - 14.0, (100 %)                          | 8.5 - 10.0              |
| 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 | : 100 °C  |                         |
| 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                             |                         |

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## TURBO DESTAINER

|  |                     |
|--|---------------------|
| Relative density                       | : 1.17 - 1.235      |
| 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.  |
| Possibility of hazardous reactions | : Mixing this product with acid or ammonia releases chlorine gas.                                      |
| Conditions to avoid                | : None known.  |
| Incompatible materials             | : Metals<br>Acids<br>Organic materials   |
| Hazardous decomposition products   | : Decomposition products may include the following materials:<br>metal oxides<br>Halogenated compounds |

### Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, 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. |

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## TURBO DESTAINER

|                  |   |
|------------------|---|
| 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. |
| Inhalation   | : No symptoms known or expected. |

### Toxicity

#### Product AS SOLD

##### Product

|                                   |   |
|-----------------------------------|---|
| Acute oral toxicity               | : no data available                       |
| Acute inhalation toxicity         | : 4 h Acute toxicity estimate : > 40 mg/l |
| 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 hypochlorite<br>LD50 rat: 5,230 mg/kg |
|---------------------|--|

#### Components

|                       |  |
|-----------------------|--|
| Acute dermal toxicity | : sodium hypochlorite<br>LD50 rabbit: 10,000 mg/kg |
|-----------------------|--|

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### Section: 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

##### Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

##### 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 hypochlorite  
96 h EC50: 0.14 mg/l

##### Components

Toxicity to daphnia and other aquatic invertebrates : sodium hypochlorite  
48 h EC50: 0.071 mg/l

##### Persistence and degradability

#### Product AS SOLD

Not applicable - inorganic

##### 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.

The product should not be allowed to enter drains, water courses or the soil.

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 : 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.



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## TURBO DESTAINER

The product should not be allowed to enter drains, water courses or the soil.

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.

### 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 (NZ\_DG)

UN number : 1791  
Description of the goods : HYPOCHLORITE SOLUTION  
Class : 8  
Packing group : III  
Hazchem Code : 2X  
Environmentally hazardous : No

#### Sea transport (IMDG/IMO)

UN number : 1791  
Description of the goods : HYPOCHLORITE SOLUTION  
Class : 8  
Packing group : III  
Marine pollutant : No

Special precautions for user : None

### Section: 15. REGULATORY INFORMATION

#### Product AS SOLD

HSNO Approval Number : HSR002526

HSNO Group Standard : Cleaning Products (Corrosive) Group Standard 2006.

**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 :

On the inventory, or in compliance with the inventory

#### Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

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**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 :**

On the inventory, or in compliance with the inventory

**Taiwan Chemical Substance Inventory :**

On the inventory, or in compliance with the inventory

### Section: 16. OTHER INFORMATION

Issuing date : 28.07.2017  
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.