

PRINCIPAL

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PRINCIPAL

Other means of identification : Not applicable.

Recommended use : Heavy duty cleaner

Product dilution information : 0.15 % - 3.0 %

Company : Ecolab New Zealand

2 Daniel Place

Te Rapa, Hamilton New Zealand

+64 7 958 2319

Emergency telephone

number

: 0800 243 622 (0800 CHEMCALL) +64 7 958 2372 (International)

Issuing date : 08.02.2021

Section: 2. HAZARDS IDENTIFICATION

HSNO Hazard classification

Product AS SOLD

Corrosive to Metals : 8.1 A
Skin corrosion : 8.2 B
Serious eye damage : 8.3 A
Aquatic toxicity (Acute or : 9.1 A

Chronic)

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 : May be corrosive to metals.

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

Precautionary Statements : **Prevention:**

Keep only in original container. 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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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. Absorb spillage to prevent material damage. Collect spillage.

Storage:

Store locked up. Store in corrosive resistant container with a resistant

inner liner. **Disposal:**

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

Product AT USE DILUTION

Hazard Statements : Harmful 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 : Mixing this product with acid or ammonia releases chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration: (%)

 sodium hydroxide
 1310-73-2
 10 - 30

 sodium hypochlorite
 7681-52-9
 1 - 5

Product AT USE DILUTION

Chemical Name CAS-No. Concentration: (%)

sodium hypochlorite 7681-52-9 0.1 - 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.

Wash clothing before reuse. Thoroughly clean shoes before reuse.

Get medical attention immediately.

If swallowed : 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.

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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:

Carbon oxides metal oxides

Halogenated compounds

for firefighters

Special protective equipment : 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.

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

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with noncombustible 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, Refer to protective measures listed in sections 7 and 8. Ensure clean-

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protective equipment and emergency procedures

up is conducted by trained personnel only.

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.

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. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full

Personal Protective Equipment (PPE).

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

suitable labeled containers.

Storage temperature : 0 °C to 35 °C

Product AT USE DILUTION

Advice on safe handling : Wash hands thoroughly after handling. In case of mechanical

malfunction, or if in contact with unknown dilution of product, wear full

Personal Protective Equipment (PPE).

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	WES-Ceiling	2 mg/m3	NZ OEL

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.

butyl-rubber Neoprene gloves

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Nitrile

Unsupported neoprene

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 : Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and

maintenance of respiratory protective equipment as applicable.

When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Multi-purpose filter:

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 : Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and

maintenance of respiratory protective equipment as applicable.

No special protective equipment required.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AS SOLD Product AT USE DILUTION

Appearance : liquid liquid

Colour : clear, light yellow light yellow
Odour : Chlorine Chlorine
pH : 12.0 - 14.0, (100 %) 11.5 - 13.0

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) : Not applicable.
Upper explosion limit : no data available
Lower explosion limit : no data available

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Vapour pressure : no data available Relative vapour density : no data available Relative density : 1.182 - 1.204

: soluble Water solubility

Solubility in other solvents : no data available Partition coefficient: n-: no data available

octanol/water

Auto-ignition temperature : no data available Thermal decomposition : no data available Viscosity, kinematic : no data available

Explosive properties : no data available

Oxidizing properties · Yes

Molecular weight : no data available VOC : no data available

Section: 10. STABILITY AND REACTIVITY

Product AS SOLD

Reactivity : No dangerous reaction known under conditions of normal use.

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.

: Acids Incompatible materials

Metals

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides metal oxides

Halogenated compounds

Section: 11. TOXICOLOGICAL INFORMATION

exposure

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

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

: Causes digestive tract burns. Ingestion

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

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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.

Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD

Product

: no data available Acute oral toxicity : no data available Acute inhalation toxicity Acute dermal toxicity : no data available Skin corrosion/irritation : no data available Serious eye damage/eye : no data available irritation

Respiratory or skin

sensitization

: no data available

: no data available Carcinogenicity Reproductive effects : no data available : no data available Germ cell mutagenicity : no data available Teratogenicity STOT - single exposure : no data available STOT - repeated exposure : no data available Aspiration toxicity : no data available

Components

Acute oral toxicity : sodium hypochlorite

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LD50 rat: 5,230 mg/kg

Components

Acute dermal toxicity : sodium hypochlorite

LD50 rabbit: > 10,000 mg/kg

Section: 12. ECOLOGICAL INFORMATION

Product AS SOLD

Toxicity

Environmental Effects : Very toxic to aquatic life.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

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 : sodium hydroxide

aquatic invertebrates

sodium hydroxide 48 h EC50: 40 mg/l

sodium hypochlorite 48 h EC50: 0.071 mg/l

Persistence and degradability

Product AS SOLD

Biodegradable

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 : The product should not be allowed to enter drains, water courses or

the soil. 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 reuse empty containers. Dispose of in accordance with local, state, and

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federal regulations.

Product AT USE DILUTION

Disposal methods : The product should not be allowed to enter drains, water courses or

the soil. 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 reuse 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 : 3266

Description of the goods : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

(sodium hydroxide, sodium hypochlorite)

Class : 8
Packing group : II
Hazchem Code : 2X

Sea transport (IMDG/IMO)

UN number : 3266

Description of the goods : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

(sodium hydroxide, sodium hypochlorite)

Class : 8
Packing group : II
Marine pollutant : Yes

Special precautions for user : None

Section: 15. REGULATORY INFORMATION

Product AS SOLD

HSNO Approval Number : HSR002526

HSNO Group Standard : Cleaning Products (Corrosive) Group Standard 2017

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

United States TSCA Inventory:

All substances listed as active on the TSCA inventory

Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL.

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Australia. Australian Industrial Chemicals Introduction Scheme (AICIS):

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

Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

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

Taiwan Chemical Substance Inventory:

On the inventory, or in compliance with the inventory

Section: 16. OTHER INFORMATION

Issuing date : 08.02.2021

Version : 1.3

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.

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