

CLORCLEAN LIQUID PLUS

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CLORCLEAN LIQUID PLUS

Other means of identification : Not applicable

Recommended use : Cleaning product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.2 % - 3.0 %

Company : Ecolab Inc.

1 Ecolab Place

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency health

information

1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 05/23/2018

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Skin corrosion : Category 1A Serious eye damage : Category 1

Product AT USE DILUTION

Skin corrosion : Category 1A Serious eye damage : Category 1

GHS label elements

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. Wear protective gloves/

protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Immediately call a POISON

CENTER/doctor. 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/doctor. Wash

contaminated clothing before reuse.

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Storage:

Store locked up. **Disposal:**

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

Product AT USE DILUTION

Hazard pictograms

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contaminated clothing before reuse.

Storage: Store locked up. 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 nameCAS-No.Concentration (%)potassium hydroxide1310-58-310 - 30

phosphoric acid, tripotassium salt 7778-53-2 5 - 10 sodium hypochlorite 7681-52-9 1 - 5 silicic acid (h2sio3), dipotassium salt 10006-28-7 1 - 5

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

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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.

Product AT USE DILUTION

: Rinse immediately with plenty of water, also under the eyelids, for at In case of eye contact

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

: Wash off immediately with plenty of water for at least 15 minutes. Use In case of skin contact

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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.

SECTION 5. FIRE-FIGHTING 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 fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides Hydrogen chloride Oxides of phosphorus

for fire-fighters

Special protective equipment : 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 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 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, protective equipment and emergency procedures

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SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling

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

with acid or ammonia releases chlorine gas.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

: -25 °C to 40 °C Storage temperature

Product AT USE DILUTION

Advice on safe handling

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

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
potassium hydroxide	1310-58-3	Ceiling	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL
sodium hypochlorite	7681-52-9	STEL	2 mg/m3	AIHA WEEL
chlorine	7782-50-5	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		Ceiling	0.5 ppm 1.45 mg/m3	NIOSH REL
		С	1 ppm 3 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Wear eye protection/ face protection.

Hand protection : Wear the following personal protective equipment:

Standard glove type.

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.

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 : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Wear eye protection/ face protection.

Hand protection : Wear the following personal protective equipment:

Standard glove type.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Product AS SOLD Product AT USE DILUTION

liquid

Appearance : liquid

Color clear, light yellow colorless Odor : Chlorine odorless : 11.5 - 12.5, (1 %) 11.5 - 13.0 рΗ

Flash point : Not applicable, Does not sustain combustion.

: No data available Odor Threshold Melting point/freezing point : No data available

Initial boiling point and

boiling range

octanol/water

: > 100 °C

Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit No data available : No data available Lower explosion limit Vapor pressure No data available Relative vapor density : No data available : 1.316 - 1.346 Relative density

Water solubility : soluble

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

: No data available

Autoignition temperature : No data available Thermal decomposition : No data available : No data available Viscosity, kinematic 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

: Stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

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

Conditions to avoid None known.

Incompatible materials Acids

Metals

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

Hydrogen chloride gas

Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

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

exposure

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 : 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.

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 : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Toxicity

Product AS SOLD

Product

: Acute toxicity estimate : 2,548 mg/kg Acute oral toxicity

: No data available Acute inhalation toxicity : No data available Acute dermal toxicity

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Skin corrosion/irritation : No data available

Serious eye damage/eye

irritation

: No data available

Respiratory or skin

sensitization

: No data available

: No data available Carcinogenicity 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

Ingredients

Acute dermal toxicity

: sodium hypochlorite

LD50 Rabbit: > 10,000 mg/kg

silicic acid (h2sio3), dipotassium salt

LD50 Rat: > 5,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

Product

Toxicity to fish : No data available : No data available Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae : No data available

Ingredients

Toxicity to fish : sodium hypochlorite

96 h EC50: 0.14 mg/l

silicic acid (h2sio3), dipotassium salt

96 h LC50: 210 mg/l

Ingredients

Toxicity to daphnia and other : sodium hypochlorite

aquatic invertebrates

48 h EC50: 0.071 mg/l

Persistence and degradability

Product AS SOLD

Not applicable - inorganic

Product AT USE DILUTION

Not applicable - inorganic

Bioaccumulative potential

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No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods : Do not contaminate ponds, waterways or ditches with chemical or

used container. 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.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

waste

: D002 (Corrosive)

Product AT USE DILUTION

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used container. 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 (DOT)

UN number : 1814

Description of the goods : Potassium hydroxide, solution

Class : 8
Packing group : II
Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 1814

Description of the goods : POTASSIUM HYDROXIDE SOLUTION

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Class : 8
Packing group : II
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hypochlorite	7681-52-9	100	3831

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.

SARA 313 : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

United States TSCA Inventory:

On the inventory, or in compliance with the inventory

Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL

Australia Inventory of Chemical Substances (AICS):

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory:

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):

not determined

China. Inventory of Existing Chemical Substances in China (IECSC):

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI):

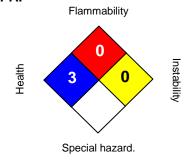
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CLORCLEAN LIQUID PLUS

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

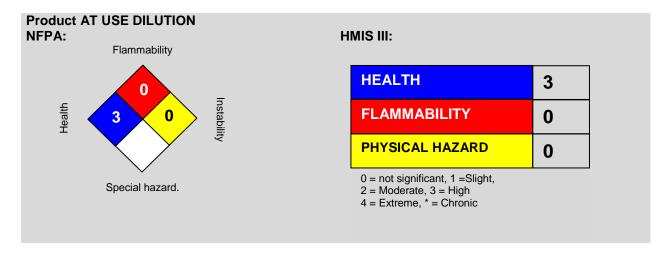
Product AS SOLD NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

- 0 = not significant, 1 = Slight,
- 2 = Moderate, 3 = High 4 = Extreme, * = Chronic



: 05/23/2018 Issuing date

: 1.1 Version

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 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 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.