

TRISTAR CHLORLITE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TRISTAR CHLORLITE

Other means of identification : not applicable

Recommended use : Bleach

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.05 % - 0.14 %

Company Ecolab Inc.

> 370 N. Wabasha Street St. Paul, Minnesota USA 55102

1-800-352-5326

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

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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

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

Product AT USE DILUTION

Not a hazardous substance or mixture.

GHS Label element

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. Mixing this product

with acid or ammonia releases chlorine gas.

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 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. Wash

contaminated clothing before reuse.

Storage:

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Store locked up.

Disposal:

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

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.

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

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.

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

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.

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.

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See toxicological information (Section 11)

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

: Carbon oxides

Special protective equipment

for fire-fighters

: 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.

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

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.

SECTION 7. HANDLING AND STORAGE

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Product AS SOLD

Advice on safe handling : Do not ingest. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do

not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation. Mixing this product with

acid or ammonia releases chlorine gas.

Conditions for safe storage

Keep in a cool, well-ventilated place. Do not store near acids. Keep away from reducing agents. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Store in

suitable labeled containers.

Storage temperature : -15 °C to 40 °C

Product AT USE DILUTION

Advice on safe handling

Wash hands thoroughly after handling. Use only with adequate

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 Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hypochlorite	7681-52-9	STEL	2 mg/m3	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
sodium hypochlorite	7681-52-9	STEL	2 mg/m3	WEEL

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.

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

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Respiratory protection

: When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Hygiene measures

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: Handle in accordance with good industrial hygiene and safety

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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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AS SOLD

Product AT USE DILUTION

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Appearance Color

: liquid : light yellow

liquid colorless

Odor pΗ

: Chlorine Chlorine

Flash point

: 12.5, 100 % : not applicable

Odor Threshold

: no data available

Melting point/freezing point

: no data available

Initial boiling point and

: no data available

boiling range

Evaporation rate

: no data available

Flammability (solid, gas)

: no data available

Upper explosion limit

: no data available

Lower explosion limit

: no data available

Vapor pressure

: no data available

Relative vapor density

: no data available

Relative density

: 1.154

Water solubility

: no data available

Solubility in other solvents

: no data available

Partition coefficient: n-

octanol/water

: no data available

Autoignition temperature

: no data available

Thermal decomposition

: no data available

Viscosity, kinematic Explosive properties : no data available

Oxidizing properties

: no data available : no data available

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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

: Acids

Metals

Hazardous decomposition

: Carbon oxides

products

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

Eves

Health injuries are not known or expected under normal use.

Skin

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

Indestion

: 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 : Respiratory irritation, Cough

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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

Respiratory or skin

no data availableno data available

sensitization

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

Ingredients

Acute oral toxicity : sodium hypochlorite

LD50 rat 5,230 mg/kg

Ingredients

Acute inhalation toxicity : sodium hypochlorite

1 h LC50 rat: > 10,500 mg/l

Ingredients

Acute dermal toxicity : sodium hypochlorite

LD50 rabbit: > 10,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD Ecotoxicity

Environmental Effects : Toxic to aquatic life.

Product

Toxicity to fish : 96 h LC50 Oncorhynchus mykiss (rainbow trout) : 2.1 mg/l

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96 h LC50 Inland Silverside: 7.6 mg/l

Toxicity to daphnia and other aquatic invertebrates

: 48 h LC50 Americamysis bahia : 18.1 mg/l

48 h LC50 Daphnia dubia: 0.57 mg/l

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 : 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.

: D002 (Corrosive)

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.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

Product AT USE DILUTION

waste

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 re-

use empty containers.

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 : 1791

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Description of the goods : Hypochlorite solutions

Class : 8 Packing group : 111 Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 1791

Description of the goods : HYPOCHLORITE SOLUTION

Class : 8 Packing group : 111 Marine pollutant : yes

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : 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:

1907/2006 (EU):

not determined

Switzerland. New notified substances and declared preparations :

The mixture contains substances listed on the Swiss Inventory On the inventory, or in compliance with the inventory

United States TSCA Inventory:

On TSCA 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

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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

Japan. ISHL - Inventory of Chemical Substances (METI):

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):

On the inventory, or in compliance with the inventory

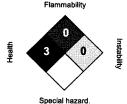
China. Inventory of Existing Chemical Substances in China (IECSC):

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



HMIS III:

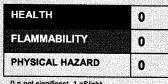
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Product AT USE DILUTION NFPA:



HMIS III:



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

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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.

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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.

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