

## **QUORUM AMBER**

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: QUORUM AMBER

Other means of identification

Not applicable

Recommended use

Surface cleaner

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

1.56 % - 3.91 %

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

10/23/2017

## **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

#### **Product AS SOLD**

Skin corrosion

Category 1A

Serious eye damage

Category 1

#### **Product AT USE DILUTION**

Skin corrosion

Serious eye damage

Category 1A

: Category 1

#### **GHS** label elements

#### **Product AS SOLD**

Hazard pictograms

E

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.

#### QUORUM AMBER

Storage:

Store locked up.

Disposal:

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

**Product AT USE DILUTION** 

Hazard pictograms

Signal Word

: Danger

**Hazard Statements** 

: Causes severe skin burns and eye damage.

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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 name	CAS-No.	Concentration (%)
diphosphoric acid, tetrapotassium salt	7320-34-5	5 - 10
potassium hydroxide	1310-58-3	5 - 10
sodium hypochlorite	7681-52-9	1 - 5
amines, coco alkyldimethyl, n-oxides	61788-90-7	1 - 5
Inorganic silicate.	1312-76-1	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.

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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.

**Product AT USE DILUTION** 

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.

#### **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

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

: Fire residues and contaminated fire extinguishing water must be

#### QUORUM AMBER

methods

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 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 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.

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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

: Do not store near acids. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: -20 °C to 40 °C

#### **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

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## **QUORUM AMBER**

#### 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	Alha 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
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

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.

## **QUORUM AMBER**

Odor

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**

Product AS SOLD Product AT USE DILUTION

Chlorine

Appearance : liquid liquid

: Chlorine

Color : light yellow colorless

pH : 13.0, (100 %) 12

Flash point : Not applicable, Does not sustain combustion.

No data available

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Odor Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and : > 100 °C

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 density : 1.24

Water solubility : soluble

Relative vapor density

Water solubility : soluble
Solubility in other solvents : No data available

Partition coefficient; n-: No data available

octanol/water

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

Explosive properties : No data available

Oxidizing properties : No data available

Molecular weight : No data available

Molecular weight : No data available

VOC : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

**Product AS SOLD** 

Conditions to avoid

Chemical stability : Stable under normal conditions.

None known.

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

reactions

0.144

988774 6 / 11

## **QUORUM AMBER**

Incompatible materials

: Metals

Acids

Organic materials

Hazardous decomposition

products

Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

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

## **QUORUM AMBER**

## **Toxicity**

**Product AS SOLD** 

**Product** 

Acute oral toxicity

: Acute toxicity estimate : 3,220 mg/kg

Acute inhalation toxicity

: No data available

Acute dermal toxicity

: Acute toxicity estimate : > 5,000 mg/kg

Skin corrosion/irritation

: No data available

Serious eye damage/eye

irritation

: No data available

Respiratory or skin

sensitization

Teratogenicity

: No data available

Carcinogenicity

: No data available

Reproductive effects

: No data available : No data available

Germ cell mutagenicity

: 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** 

: 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

Ingredients

Toxicity to fish

: sodium hypochlorite

96 h EC50: 0.14 mg/l

amines, coco alkyldimethyl, n-oxides

96 h LC50 Fish: 1 mg/l

Inorganic silicate. 96 h LC50: 210 mg/l

Ingredients

Toxicity to daphnia and other

aquatic invertebrates

: diphosphoric acid, tetrapotassium salt

48 h EC50 Daphnia: > 100 mg/l

sodium hypochlorite 48 h EC50: 0.071 mg/l

## QUORUM AMBER

#### Persistence and degradability

#### **Product AS SOLD**

Poorly biodegradable

#### **Product AT USE DILUTION**

Poorly 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

: 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 : D002 (Corrosive)

#### **Product AT USE DILUTION**

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.

## **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

## QUORUM AMBER

Description of the goods

: Potassium hydroxide, solution

Class

Packing group

: 11

Environmentally hazardous

## Sea transport (IMDG/IMO)

**UN number** 

: 1814

Description of the goods

: POTASSIUM HYDROXIDE SOLUTION

Class

: 8

Packing group

: 11

Marine pollutant

#### **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	2778

## 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** 

: No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

**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:

All components are listed or exempted.

## Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL

#### Australia Inventory of Chemical Substances (AICS):

not determined

## 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):

## QUORUM AMBER

not determined

## 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):

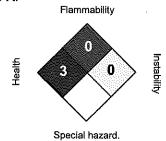
On the inventory, or in compliance with the inventory

## **Taiwan Chemical Substance Inventory:**

not determined

## **SECTION 16. OTHER INFORMATION**

## **Product AS SOLD** NFPA:



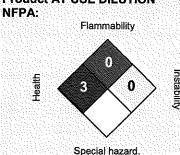
#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

## **Product AT USE DILUTION**



## HMIS III:

HEALTH		3	
FLAMMABILITY		0	
PHYSICAL HAZARD	)	0	

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Issuing date

10/23/2017

Version

1.1

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.