

# **QUORUM RED II**

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : QUORUM RED II

Other means of identification : Not applicable

Recommended use : Cleaning product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.2 % - 1.56 %

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 : 10/15/2018

## **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

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention**:

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rinsing. Immediately call a POISON CENTER/doctor. Wash

contaminated clothing before reuse.

Storage: Store locked up. Disposal:

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

**Product AS SOLD** 

Other hazards : Do not mix with bleach or other chlorinated products – will cause

chlorine gas.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Product AS SOLD** 

Pure substance/mixture : Mixture

Chemical name CAS-No. Concentration (%)

Phosphoric acid 7664-38-2 10 - 30 citric acid 77-92-9 5 - 10

**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

a mild soap if available. Wash clothing before reuse. Thoroughly clean

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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.

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.

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.

: 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** 

If swallowed

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

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**

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#### **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). 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. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Conditions for safe storage

: Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : -10 °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. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

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

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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

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		STEL	3 mg/m3	NIOSH REL
		TWA	1 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.

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# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Product AS SOLD** 

Appearance : liquid Color : clear, red Odor : slight

рΗ : 0.3, (100 %) Flash point : 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 : No data available Relative vapor density

Relative density : 1.194

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

octanol/water

Autoignition temperature : No data available : No data available Thermal decomposition Viscosity, kinematic : No data available : No data available Explosive properties Oxidizing properties : No data available Molecular weight : No data available VOC : No data available

## **Product AT USE DILUTION**

liquid light pink not significant

2.0 - 3.0

# **SECTION 10. STABILITY AND REACTIVITY**

**Product AS SOLD** 

: Stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

: Do not mix with bleach or other chlorinated products – will cause

chlorine gas.

Conditions to avoid : None known.

Incompatible materials : Bases Metals

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be produced

such as:

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# **QUORUM RED II**

Carbon 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** 

: Causes serious eye damage. Eyes

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

: Corrosion, Abdominal pain Ingestion

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

Acute inhalation toxicity : No data available

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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 Germ cell mutagenicity : No data available Teratogenicity : No data available STOT-single exposure : No data available STOT-repeated exposure : No data available

Aspiration toxicity Components

Acute inhalation toxicity

: Phosphoric acid

: No data available

4 h LC50 Rat: 0.962 mg/l Test atmosphere: dust/mist

Components

Acute dermal toxicity

: Phosphoric acid

LD50 Rabbit: > 2,000 mg/kg

## **SECTION 12. ECOLOGICAL INFORMATION**

**Product AS SOLD Ecotoxicity** 

**Environmental Effects** : This product has no known ecotoxicological effects.

**Product** 

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

aquatic invertebrates

: No data available

Components

Toxicity to algae

Toxicity to fish : citric acid

96 h LC50 Fish: > 100 mg/l

Components

Toxicity to daphnia and other : Phosphoric acid

aquatic invertebrates

48 h EC50 Daphnia magna (Water flea): > 100 mg/l

Components

Toxicity to algae : Phosphoric acid

72 h EC50 Desmodesmus subspicatus (green algae): > 100 mg/l

Persistence and degradability

**Product AS SOLD** 

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Readily biodegradable.

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

Readily 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 : 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**

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.

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 : 1805

Description of the goods : Phosphoric acid solution

Class : 8
Packing group : III
Environmentally hazardous : no

Sea transport (IMDG/IMO)

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## QUORUM RED II

UN number : 1805

Description of the goods : PHOSPHORIC ACID SOLUTION

Class : 8
Packing group : III
Marine pollutant : no

# **SECTION 15. REGULATORY INFORMATION**

#### **Product AS SOLD**

## **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phosphoric acid	7664-38-2	5000	18416

## 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):

On the inventory, or in compliance with the inventory

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

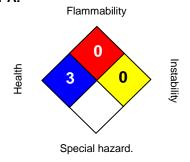
On the inventory, or in compliance with the inventory

#### Taiwan Chemical Substance Inventory (TCSI):

On the inventory, or in compliance with the inventory

## **SECTION 16. OTHER INFORMATION**

# Product AS SOLD NFPA:



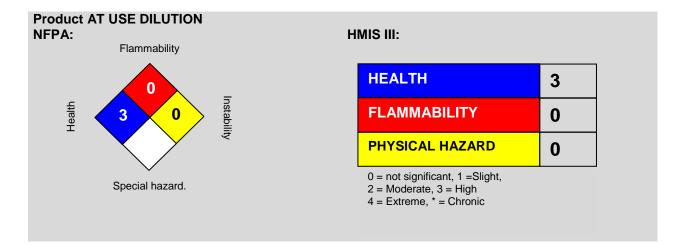
#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic



Issuing date : 10/15/2018

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.

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