# **SAFETY DATA SHEET**



QUORUM YELLOW LP

# Section 1. Chemical product and company identification

**Product name** 

: QUORUM YELLOW LP

Recommended use and

: Cleaning product

restrictions

Use only for the purpose on the product label.

Product dilution information: Up to 5 oz/gal or 39 mL/L in water

Supplier's information

: Ecolab Inc. Food & Beverage Division

370 N. Wabasha Street St. Paul, MN 55102 1-800-392-3392

Code

: 937292-01

Date of issue

: 19 Mar 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**Product AS SOLD** 

**GHS Classification** 

: SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

AQUATIC TOXICITY (ACUTE) - Category 2

**GHS label elements** 

Signal word

Danger

Symbol

(E)

**Hazard statements** 

: Causes severe skin burns and eye damage.

Toxic to aquatic life.

**Precautionary statements** 

Prevention

: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.

Response

: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES:

**Product AT USE DILUTION** 

SKIN CORROSION/IRRITATION - Category

|1

SERIOUS EYE DAMAGE/ EYE IRRITATION

- Category 1

AQUATIC TOXICITY (ACUTE) - Category 3

Danger



Causes severe skin burns and eye damage. Harmful to aquatic life.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Wash hands thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or

## Section 2. Hazards identification

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, Immediately call a

POISON CENTER or physician.

Storage

: No other specific measures identified.

Disposal

: See section 13 for waste disposal information.

Other hazards

: None known.

physician. 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 physician.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product AS SOLD** 

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM HYDROXIDE	9	1310-73-2
sodium hypochlorite	3	7681-52-9
COCAMINE OXIDE	1 - 5	61788-90-7
SODIUM XYLENE SULFONATE	1 ~ 5	1300-72-7

Product AT USE DILUTION	Maria de la companya	it elle tital. Dit 19 telle, till brokke bill blev telstotte beken om bleven og tekniken er ett blev
IPPORTICE AT LISE ON THE IN		
II TOUGOLA LOCA DIEGITO		
- 📕 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	아니다 아는 전한 것이 되어 나는 사람들이 살아 없는 것이 하는 사람들이 있다면 사람들이 되었다. 그는 사람들이 되었다면 하는 사람들이 되었다는 사람들이 되었다면 하는 것이 없다는 것이 없다는 것이 없다는 것이 없다면 하는 것이었다면 하는 것이 없다면 하는 것이었다면 하는 것이었다	그는 하는 사람들이 함께 함께 함께 함께 살아보다 아이는 한 문학은 아니는 사람들이 되었다. 하는 하는 사람들이 하는 아니는 사람들이 나는 아니는 아니는 사람들이 살아 살아 나는 사람들이 살아
<ul> <li>In the service of the expression of the professional and the service of the service</li></ul>	经产品收益的数据数据数据数据数据数据数据数据数据数据数据 计正常控制 电电影 经收益 医电影 医克克氏病 医皮肤皮肤 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	
	그들이 보고 되어요. 아니라는 아니는 하는 아이들은 아이들은 그리아 나는 이 아이들이 하는 그는 그들은 하고 그 아이들이 하는데 하는데 하는데 하는데 그는 그는 사람들이 하는데 하는데 하는데 하는데	
	아마나 아마리 아마리 아마니아 아마리 아마리 아마리 아마리 아마리 아마리 아마리 아마리 아마리 아마	CARACTER CONTRACTOR CO
Hazardous ingredients	Concentration Range	(%) CAS number
riazaraous ingreuients	- Concentration 1/41/95	
a Barilan kalangga ya kata ingala katangga na atau katangga katangga na barangga katangga katangga katangga ka		
<ul> <li>If the property of the control of the</li></ul>		editales establicates estables estables estables a la comparation de partir estables estables en commente de l
<ul> <li>But the state of t</li></ul>	물건 경기를 가장 하는 것 같아요. 그는 것 같아 없는 것 같아. 그는 것 같아. 그는 것 같아. 그는 것 같아. 그는 것 같아 없는 것 같아. 그는 것 같아. 그는 것 같아.	
sodium hypochlorite		7681-52-9
1 SOCIUIII IIVDOCIIIOIIC		1001-02-3

## Section 4. First aid measures

D	. الم	4	40	CO	ın
PIC	วนเ	ICL	A5	SO	LU

Eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact

: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Ingestion

aiders

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Protection of first-

: Get medical attention immediately. Rinse mouth. Do not induce vomiting.

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated

clothing thoroughly with water before removing it, or wear gloves.

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)

#### Product AT USE DILUTION

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Take off immediately all contaminated clothing. Rinse skin with water or shower, Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Get medical attention immediately. Rinse mouth. Do not induce vomiting.

QUORUM YELLOW LP 19 Mar 2013

## Section 5. Fire-fighting measures

**Product AS SOLD** 

Suitable fire extinguishing

media

: Use water spray, fog or foam.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

Specific fire-fighting methods

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### **Product AS SOLD**

# Personal precautions

: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.

Environmental precautions Methods for cleaning up : Avoid contact of spilled material and runoff with soil and surface waterways.

: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/ neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

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

Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.

Avoid contact of spilled material and runoff with soil and surface waterways.

Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

# Section 7. Handling and storage

### **Product AS SOLD**

### Handling

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.

Storage

: Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 50°C

### **Product AT USE DILUTION**

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed.

QUORUM YELLOW LP

## Section 8. Exposure controls/personal protection

#### Control parameters

Exposure limits
ACGIH TLV (United States, 3/2012). C: 2 mg/m³
OSHA PEL (United States, 6/2010). TWA: 2 mg/m³ 8 hours.
NIOSH REL (United States, 6/2009). CEIL: 2 mg/m³
AIHA WEEL (United States, 10/2011).
STEL: 2 mg/m³ 15 minutes.  ACGIH TLV (United States, 3/2012).
STEL: 2.9 mg/m³ 15 minutes. STEL: 1 ppm 15 minutes.
TWA: 1.5 mg/m³ 8 hours. TWA: 0.5 ppm 8 hours.
OSHA PEL (United States, 6/2010). CEIL: 3 mg/m³
CEIL: 1 ppm NIOSH REL (United States, 6/2009).
CEIL: 0.5 ppm 15 minutes.  CEIL: 1.45 mg/m³ 15 minutes.
•

# Appropriate engineering controls

#### **Product AS SOLD**

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

## Personal protection

Eye protection

Hand protection
Skin protection

- Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
- : Use chemical-resistant, impervious gloves.
- : Use synthetic apron, other protective equipment as necessary to prevent skin contact.

# Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

# Hygiene measures : Wash hands, forearms and fac

## Product AT USE DILUTION

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Use chemical-resistant, impervious gloves.
Use synthetic apron, other protective
equipment as necessary to prevent skin
contact.

A respirator is not needed under normal and intended conditions of product use.

 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Product AT USE DILUTION** 

Liquid.

Pale color

11.8 to 12.8

> 100°C

Faint odor [Slight]

# Section 9. Physical and chemical properties

**Product AS SOLD** 

Physical state

: Liquid.

Color

: Yellow [Light]

Odor

: chlorine

Ha

: 12 to 13 (100%)

Flash point

: > 100°C

Product does not support combustion.

**Explosion limits** 

Flammability (solid,

: Not available. : Not available.

gas)

**Melting point Boiling point** 

: Not available. : 100°C (212°F)

**Evaporation rate** (butyl acetate = 1) : Not available.

Vapor pressure

: Not available. : Not available.

Vapor density Relative density

: 1.155 to 1.185 (Water = 1)

Solubility

: Easily soluble in the following materials: cold

water and hot water.

Partition coefficient: : Not available.

n-octanol/water

**Auto-ignition** 

temperature

: Not available.

Decomposition

temperature

: Not available.

Odor threshold

: Not available. : Not available.

**Viscosity** 

# Section 10. Stability and reactivity

**Product AS SOLD** 

**Stability** 

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: No specific data.

Materials to avoid

: Reactive or incompatible with the following materials: organic materials and acids.

Slightly reactive or incompatible with the following materials: metals. Mixing this product with acid or ammonia releases chlorine gas.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# Section 11. Toxicological information

Route of exposure

: Skin contact, Eye contact, Inhalation, Ingestion

QUORUM YELLOW LP 19 Mar 2013

# **Section 11. Toxicological information**

Product AS SOLD

**Symptoms** 

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Inhalation**: Adverse symptoms may include the following:

coughing

Respiratory tract irritation

**Ingestion**: Adverse symptoms may include the following:

stomach pains

Acute toxicity

**Eye contact** : Causes serious eye damage.

**Skin contact**: Causes severe burns.

**Inhalation**: May cause respiratory irritation.

**Ingestion**: May cause burns to mouth, throat and stomach.

**Product AT USE DILUTION** 

Adverse symptoms may include the following:

pain watering redness

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Adverse symptoms may include the following:

stomach pains

Causes serious eye damage.

Causes severe burns.

May cause respiratory irritation.

May cause burns to mouth, throat and

stomach.

### Toxicity data

Product/ingredient name	Result	Species	Dose
sodium hypochlorite	LD50 Dermal	Rabbit	>10000 mg/kg
•	LD50 Oral	Rat	5230 mg/kg
amines, coco alkyldimethyl, n-oxides	LD50 Dermal	Rat	>2174 mg/kg
	LD50 Oral	Rat	846 mg/kg
Benzenesulfonic acid, dimethyl-, sodium salt	LC50 Inhalation Dusts	Rat	>6.2 mg/l
(1:1)	and mists		
	LD50 Dermal	Rabbit	>2000 mg/kg
•	LD50 Oral	Rat	>7000 mg/kg

**Chronic toxicity** 

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

## Section 12. Ecological information

## **Product AS SOLD**

**Ecotoxicity**: This material is toxic to aquatic life.

## **Aquatic and terrestrial toxicity**

Product/ingredient name	Result	Species	Exposure
sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours
sodium hypochlorite	Acute EC50 0.071 mg/l	Daphnia	48 hours
amines, coco alkyldimethyl, n-oxides	Acute LC50 <1 mg/l	Fish	96 hours
Benzenesulfonic acid, dimethyl-, sodium salt (1:	Acute EC50 230 mg/l	Aquatic plants	96 hours
1)	_	•	

Other adverse effects : No known significant effects or critical hazards.

Page: 6/8

# Section 13. Disposal considerations

**Product AS SOLD** 

Disposal methods

 Avoid disposal. Attempt to use product completely in accordance with intended use.
 Disposal should be in accordance with applicable regional, national and local laws and regulations.

RCRA classification : Unused product is D002 (Corrosive)

### **Product AT USE DILUTION**

Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **Section 14. Transport information**

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

**DOT Classification** 

UN3266

**DOT Proper shipping name** 

Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide, sodium

hypochlorite)

Class

8

Packing group

Ш

**IMO/IMDG** 

**IMO/IMDG Classification** 

UN3266

**IMO/IMDG Proper shipping name** 

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide,

sodium hypochlorite)

Class

8

**Packing group** 

11

For transport in bulk, see shipping documents for specific transportation information.

#### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD** 

**U.S. Federal regulations** 

TSCA 8(b) inventory

: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance SARA 302/304 emergency planning and notification: No listed substance

**SARA 313** 

**Product name** 

CAS number Concentration

Form R - Reporting

requirements

: No listed substance

California Prop. 65 : No listed substance

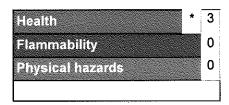
Section 16. Other information

# Section 16. Other information

**Product AS SOLD** 

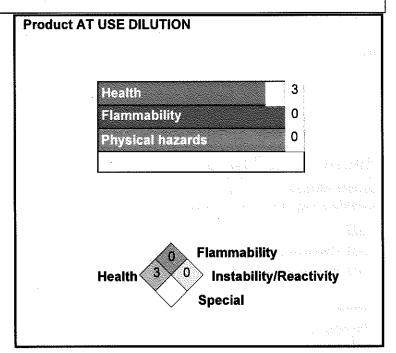
**Hazardous Material** 

Information System (U.S.A.)



National Fire Protection Association (U.S.A.)





Date of issue

: 19 Mar 2013

Prepared by

: Regulatory Affairs

1-800-352-5326

### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.