

# SAFETY DATA SHEET



QUORUM PURPLE

## Section 1. Chemical product and company identification

**Product name** : QUORUM PURPLE  
**Recommended use and restrictions** : Cleaning product  
Use only for the purpose on the product label.

**Product dilution information** : Up to 3 oz/gal or 23.4 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** : 912799

**Date of issue** : 02 Jul 2013  
EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
ACUTE TOXICITY: INHALATION - Category 4  
SKIN CORROSION/IRRITATION - Category 1  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3

### GHS label elements

**Signal word** : Danger

**Symbol** :

**Hazard statements** : Harmful if inhaled.  
Causes severe skin burns and eye damage.  
May cause respiratory irritation.

### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not mix with bleach or other chlorinated products - will cause chlorine gas. Wash hands thoroughly after handling.

**Response** :

**Product AT USE DILUTION**  
SKIN CORROSION/IRRITATION - Category 1  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

**Danger**



Causes severe skin burns and eye damage.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

## Section 2. Hazards identification

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: 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.

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: 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.

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 |
|--|-------------------------|------------|
| PHOSPHORIC ACID  | 27                      | 7664-38-2  |
| methanesulphonic acid  | 5 - 20                  | 75-75-2    |
| SODIUM XYLENE SULFONATE  | 1 - 5                   | 1300-72-7  |
| sulfonic acids, petroleum, sodium salts                        | 1 - 5                   | 68608-26-4 |
| poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy- | 1 - 5                   | 9043-30-5  |

### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

## Section 4. First aid measures

**Product AS SOLD**

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

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

**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.

## Section 4. First aid measures

**Protection of first-aiders** : 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. If ventilation is inadequate, use respirator that will protect against dust/mist. 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)

## 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.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 sulfur oxides  
 phosphorus oxides  
 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** : Avoid contact of spilled material and runoff with soil and surface waterways.

**Methods for cleaning up** : 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 ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Do not mix with bleach or other chlorinated products - will cause chlorine gas. Wash thoroughly after handling.

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

Store between the following temperatures: -30 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.

**Section 8. Exposure controls/personal protection**

**Control parameters**

| Ingredient name | Exposure limits  |
|-----------------|--|
| PHOSPHORIC ACID | <b>ACGIH TLV (United States, 3/2012).</b><br>STEL: 3 mg/m <sup>3</sup> 15 minutes.<br>TWA: 1 mg/m <sup>3</sup> 8 hours.<br><b>OSHA PEL (United States, 6/2010).</b><br>TWA: 1 mg/m <sup>3</sup> 8 hours.<br><b>NIOSH REL (United States, 6/2009).</b><br>TWA: 1 mg/m <sup>3</sup> 10 hours.<br>STEL: 3 mg/m <sup>3</sup> 15 minutes. |

**Product AS SOLD**

**Appropriate engineering controls** : 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** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

**Hand protection** : Use chemical-resistant, impervious gloves.

**Skin protection** : Use synthetic apron, other protective equipment as necessary to prevent skin contact.

**Respiratory protection** : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

**Hygiene measures** : 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**

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.

## Section 9. Physical and chemical properties

|  | Product AS SOLD  |
|--|--|
| Physical state                         | : Liquid.  |
| Color                                  | : Purple   |
| Odor                                   | : Faint odor   |
| pH                                     | : 0.5 to 1 (100%)  |
| Flash point                            | : > 100°C<br>Product does not support combustion.                      |
| Explosion limits                       | : Not available.   |
| Flammability (solid, gas)              | : Not available.   |
| Melting point                          | : Not available.   |
| Boiling point                          | : >100°C (>212°F)  |
| Evaporation rate (butyl acetate = 1)   | : Not available.   |
| Vapor pressure                         | : Not available.   |
| Vapor density                          | : Not available.   |
| Relative density                       | : 1.19 to 1.23 (Water = 1)   |
| Solubility                             | : Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : Not available.   |
| Auto-ignition temperature              | : Not available.   |
| Decomposition temperature              | : Not available.   |
| Odor threshold                         | : Not available.   |
| Viscosity                              | : Not available.   |

### Product AT USE DILUTION

Liquid.  
Purple [Light]  
Faint odor  
1 to 2  
> 100°C

## 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                 | : Extremely reactive or incompatible with the following materials: alkalis.<br>Reactive or incompatible with the following materials: organic materials, metals and moisture.<br>Do not mix with bleach or other chlorinated products - will cause 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

**Section 11. Toxicological information**

|                       | Product AS SOLD  | Product AT USE DILUTION  |
|-----------------------|--|--|
| <b>Symptoms</b>       |  |  |
| <b>Eye contact</b>    | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           | Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
| <b>Skin contact</b>   | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur | Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
| <b>Inhalation</b>     | : Adverse symptoms may include the following:<br>coughing<br>Respiratory tract irritation              | Adverse symptoms may include the following:<br>coughing<br>Respiratory tract irritation              |
| <b>Ingestion</b>      | : Adverse symptoms may include the following:<br>stomach pains   | Adverse symptoms may include the following:<br>stomach pains   |
| <b>Acute toxicity</b> |  |  |
| <b>Eye contact</b>    | : Causes serious eye damage.   | Causes serious eye damage.   |
| <b>Skin contact</b>   | : Causes severe burns.   | Causes severe burns.   |
| <b>Inhalation</b>     | : Harmful if inhaled. May cause respiratory irritation.  | May cause respiratory irritation.  |
| <b>Ingestion</b>      | : May cause burns to mouth, throat and stomach.  | May cause burns to mouth, throat and stomach.  |

**Toxicity data**

**Product/ingredient name**

|   |                 |        |             |
|---|-----------------|--------|-------------|
| phosphoric acid   | LC50 Inhalation | Rat    | 0.962 mg/l  |
|   | Dusts and mists |        |             |
|   | LD50 Dermal     | Rat    | >2000 mg/kg |
| methanesulphonic acid   | LD50 Oral       | Rat    | >2000 mg/kg |
|   | LD50 Dermal     | Rabbit | >1000 mg/kg |
|   | LD50 Oral       | Rat    | 649 mg/kg   |
| Benzenesulfonic acid, dimethyl-, sodium salt (1:1)              | LC50 Inhalation | Rat    | >6.2 mg/l   |
|   | Dusts and mists |        |             |
|   | LD50 Dermal     | Rabbit | >2000 mg/kg |
| sulfonic acids, petroleum, sodium salts                         | LD50 Oral       | Rat    | >7000 mg/kg |
|   | LC50 Inhalation | Rat    | >1.9 mg/l   |
|   | Dusts and mists |        |             |
| poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-, omega.-hydroxy- | LD50 Dermal     | Rabbit | >5000 mg/kg |
|   | LD50 Oral       | Rat    | >5000 mg/kg |
|   | LD50 Oral       | Rat    | 1000 mg/kg  |

**Chronic toxicity**

|                              |   |
|------------------------------|---|
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards. |
| <b>Teratogenicity</b>        | : No known significant effects or critical hazards. |
| <b>Developmental effects</b> | : No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | : 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 |
|--|----------------------|----------------|----------|
| phosphoric acid  | Acute LC50 75.1 mg/l | Fish           | 96 hours |
| methanesulphonic acid  | Acute EC50 70 mg/l   | Daphnia        | 48 hours |
| Benzenesulfonic acid, dimethyl-, sodium salt (1:1)             | Acute EC50 230 mg/l  | Aquatic plants | 96 hours |
| sulfonic acids, petroleum, sodium salts                        | Acute LC50 >100 mg/l | Fish           | 96 hours |
| poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy- | Acute LC50 0.25 mg/l | Fish           | 96 hours |

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

## 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** UN1805  
**DOT Proper shipping name** Phosphoric acid solution  
**Class** 8  
**Packing group** III

**IMO/IMDG**

**IMO/IMDG Classification** UN1805  
**IMO/IMDG Proper shipping name** PHOSPHORIC ACID, SOLUTION  
**Class** 8  
**Packing group** III

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

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

|                  |   |   |
|------------------|---|---|
| Health           | * | 3 |
| Flammability     |   | 0 |
| Physical hazards |   | 0 |
|                  |   |   |

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



**Product AT USE DILUTION**

|                  |   |
|------------------|---|
| Health           | 3 |
| Flammability     | 0 |
| Physical hazards | 0 |
|                  |   |

Health 3
Flammability 0  
Instability/Reactivity 0  
Special

Date of issue : 02 Jul 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.