SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: QUORUM PINK II HF
Other means of identification: Not applicable
Recommended use: Surface cleaner
Restrictions on use: Reserved for industrial and professional use.
Product dilution information: 0.78 % - 7.8 %

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: 07/27/2020

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Product AS SOLD
Skin corrosion: Category 1A
Serious eye damage: Category 1

Product AT USE DILUTION
Not a hazardous substance or mixture.

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. Storage:
SAFETY DATA SHEET
QUORUM PINK II HF

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.

Product AS SOLD
Other hazards:
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD
Pure substance/mixture:
Mixture

Chemical name                              CAS-No.       Concentration (%)
Dodecylbenzenesulfonic acid, sodium salt  25155-30-0    5 - 10
diphosphoric acid, tetrapotassium salt     7320-34-5     1 - 5
Dipropylene glycol methyl ether            34590-94-8    1 - 5
Di-propyleneglycol ethers                  29911-27-1    1 - 5
Secondary Alkanesulphonates                68439-57-6    1 - 5
disodium metasilicate                      6834-92-0     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.

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.
SAFETY DATA SHEET

QUORUM PINK II HF

<table>
<thead>
<tr>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>In case of eye contact</td>
</tr>
<tr>
<td>In case of skin contact</td>
</tr>
<tr>
<td>If swallowed</td>
</tr>
<tr>
<td>If inhaled</td>
</tr>
</tbody>
</table>

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
- Sulfur oxides
- Oxides of phosphorus

Special protective equipment for fire-fighters: 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

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: Refer to protective measures listed in sections 7 and 8.
SAFETY DATA SHEET

QUORUM PINK II HF

Environmental precautions : No special environmental precautions required.

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.

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. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).


Storage temperature : -10 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section 8.

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Form of exposure</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene glycol methyl ether</td>
<td>34590-94-8</td>
<td>TWA</td>
<td>100 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm 900 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 600 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 600 mg/m3</td>
<td>OSHA Z1</td>
</tr>
</tbody>
</table>

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: 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>clear, pink</td>
<td>light pink</td>
</tr>
<tr>
<td>Odor</td>
<td>hydrocarbon-like</td>
<td>slight</td>
</tr>
<tr>
<td>pH</td>
<td>12.0 - 13.0, (100 %)</td>
<td>10.6 - 11.8</td>
</tr>
<tr>
<td>Flash point</td>
<td>98 °C closed cup, Does not sustain combustion.</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>100 °C</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>1.06 - 1.08</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
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QUORUM PINK II HF

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

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD
Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Conditions to avoid : None known.
Incompatible materials : Acids
Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
  Carbon oxides
  Sulfur oxides
  Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

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

** Inhalation** : Respiratory irritation, Cough

**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** : Acute toxicity estimate : > 5,000 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** : No data available

**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

**SECTION 12. ECOLOGICAL INFORMATION**

**Product AS SOLD**

**Ecotoxicity**

**Environmental Effects** : Harmful to aquatic life.

**Product**

**Toxicity to fish** : No data available

**Toxicity to daphnia and other aquatic invertebrates** : 48 h EC50 Daphnia magna (Water flea): 87 mg/l
Toxicity to algae: No data available

Components

Toxicity to fish:

- Dodecylbenzenesulfonic acid, sodium salt
  96 h LC50 Fish: 3.2 mg/l
- Dipropylene glycol methyl ether
  96 h LC50 Fish: > 1,000 mg/l
- Di- propyleneglycol ethers
  96 h LC50 Fish: > 100 mg/l
- Secondary Alkanesulphonates
  96 h LC50 Fish: 4.2 mg/l
- disodium metasilicate
  96 h LC50 Fish: 210 mg/l

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 re-use empty containers. Dispose of in accordance with local, state, and federal regulations.


Product AT USE DILUTION
Disposal methods: Diluted product can be flushed to sanitary sewer.

Disposal considerations: 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)
Not dangerous goods

Sea transport (IMDG/IMO)
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dodecylbenzenesulfonic acid, sodium salt</td>
<td>25155-30-0</td>
<td>1000</td>
<td>10536</td>
</tr>
</tbody>
</table>

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.

California Cleaning Product Right to Know Act of 2017 (SB 258)
This regulation does not apply to this product.

The ingredients of this product are reported in the following inventories:

Switzerland. New notified substances and declared preparations : On the inventory, or in compliance with the inventory

United States TSCA Inventory : All substances listed as active on the 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.

**New Zealand. Inventory of Chemical Substances:**
not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory:**
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.

**Taiwan Chemical Substance Inventory (TCSI):**
On the inventory, or in compliance with the inventory.

### SECTION 16. OTHER INFORMATION

**Product AS SOLD**

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Slight</td>
<td>0</td>
</tr>
</tbody>
</table>

**NFPA:**

- **Health:** 3
- **Flammability:** 1
- **Instability:** 0

**HMIS III:**

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

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

**Product AT USE DILUTION**

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**NFPA:**

- **Health:** 0
- **Flammability:** 0
- **Instability:** 0

**HMIS III:**

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

Issuing date : 07/27/2020
Version : 1.5
SAFETY DATA SHEET
QUORUM PINK II HF

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 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.