

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : KOOL KLENE QD

Other means of identification : Not applicable

Recommended use : Cleaning product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

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 : 05/25/2018

**SECTION 2. HAZARDS IDENTIFICATION**
**GHS Classification**

Flammable liquids : Category 3

Eye irritation : Category 2A

Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)

**GHS label elements**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Flammable liquid and vapor.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**  
Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.

**Response:**  
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. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with

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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal:**

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

**Other hazards** : None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

| Chemical name        | CAS-No.  | Concentration (%) |
|----------------------|----------|-------------------|
| ethanol              | 64-17-5  | 30 - 60           |
| 1-methoxy-2-propanol | 107-98-2 | 10 - 30           |
| monoethanolamine     | 141-43-5 | 1 - 5             |

### SECTION 4. FIRST AID MEASURES

In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

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.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Fire Hazard  
Keep away from heat and sources of ignition.  
Flash back possible over considerable distance.  
Beware of vapors accumulating to form explosive concentrations.  
Vapors can accumulate in low areas.

Hazardous combustion : Decomposition products may include the following materials:

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products Carbon oxides  
Nitrogen oxides (NOx)

Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing methods : Use water spray to cool unopened containers. 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

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition. 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 : Eliminate all ignition sources if safe to do so. 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

Advice on safe handling : Avoid contact with skin and eyes. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Wash hands thoroughly after handling. Open drum carefully as content may be under pressure.

Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : -30 °C to 50 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Ingredients          | CAS-No.  | Form of exposure | Permissible concentration            | Basis     |
|----------------------|----------|------------------|--------------------------------------|-----------|
| ethanol              | 64-17-5  | TWA              | 1,000 ppm<br>1,900 mg/m <sup>3</sup> | NIOSH REL |
|                      |          | TWA              | 1,000 ppm<br>1,900 mg/m <sup>3</sup> | OSHA Z1   |
| 1-methoxy-2-propanol | 107-98-2 | TWA              | 50 ppm                               | ACGIH     |
|                      |          | STEL             | 100 ppm                              | ACGIH     |
|                      |          | STEL             | 150 ppm<br>540 mg/m <sup>3</sup>     | NIOSH REL |

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|                  |          |      |                                  |           |
|------------------|----------|------|----------------------------------|-----------|
|                  |          | TWA  | 100 ppm<br>360 mg/m <sup>3</sup> | NIOSH REL |
| monoethanolamine | 141-43-5 | TWA  | 3 ppm                            | ACGIH     |
|                  |          | STEL | 6 ppm                            | ACGIH     |
|                  |          | TWA  | 3 ppm<br>8 mg/m <sup>3</sup>     | NIOSH REL |
|                  |          | STEL | 6 ppm<br>15 mg/m <sup>3</sup>    | NIOSH REL |
|                  |          | TWA  | 3 ppm<br>6 mg/m <sup>3</sup>     | OSHA Z1   |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

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. Wash face, hands and any exposed skin thoroughly after handling.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| Appearance                              | : liquid                                |
| Color                                   | : fluorescent, light green              |
| Odor                                    | : alcohol-like                          |
| pH                                      | : 11.3, (100 %)                         |
| Flash point                             | : 27 °C closed cup, Sustains combustion |
| Odor Threshold                          | : No data available                     |
| Melting point/freezing point            | : No data available                     |
| Initial boiling point and boiling range | : > 35 °C                               |
| 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 vapor density                  | : No data available                     |
| Relative density                        | : 0.943                                 |
| Water solubility                        | : soluble                               |
| Solubility in other solvents            | : No data available                     |
| Partition coefficient: n-               | : No data available                     |

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octanol/water

|                          |                     |
|--------------------------|---------------------|
| 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

|                                    |   |
|------------------------------------|---|
| Chemical stability                 | : Stable under normal conditions.   |
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use.   |
| Conditions to avoid                | : Heat, flames and sparks.  |
| Incompatible materials             | : Acids<br>Metals   |
| Hazardous decomposition products   | : Decomposition products may include the following materials:<br>Carbon oxides<br>Nitrogen oxides (NOx) |

### SECTION 11. TOXICOLOGICAL INFORMATION

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

#### Potential Health Effects

|                  |   |
|------------------|---|
| Eyes             | : Causes serious eye irritation.                              |
| Skin             | : Health injuries are not known or expected under normal use. |
| Ingestion        | : Health injuries are not known or expected under normal use. |
| Inhalation       | : Inhalation may cause central nervous system effects.        |
| Chronic Exposure | : Health injuries are not known or expected under normal use. |

#### Experience with human exposure

|              |                                  |
|--------------|----------------------------------|
| Eye contact  | : Redness, Pain, Irritation      |
| Skin contact | : No symptoms known or expected. |
| Ingestion    | : No symptoms known or expected. |
| Inhalation   | : Dizziness, Drowsiness          |

#### Toxicity

#### Product

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|                                   |   |   |
|-----------------------------------|---|---|
| Acute oral toxicity               | : | Acute toxicity estimate : > 5,000 mg/kg                               |
| Acute inhalation toxicity         | : | 4 h Acute toxicity estimate : > 10 mg/l<br>Test atmosphere: dust/mist |
| 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

#### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

#### 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 : ethanol  
96 h LC50 Pimephales promelas: > 100 mg/l

1-methoxy-2-propanol  
96 h LC50 Fish: > 1,000 mg/l

#### Ingredients

Toxicity to daphnia and other aquatic invertebrates : monoethanolamine  
48 h LC50: 65 mg/l

#### Persistence and degradability

Readily biodegradable.

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

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No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

- 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 re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
- RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D001 (Ignitable)

### SECTION 14. TRANSPORT INFORMATION

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 : 1993
- Description of the goods : Flammable liquids, n.o.s.  
(Ethanol, 1-methoxy-2-propanol)
- Class : 3
- Packing group : III
- Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

- UN number : 1993
- Description of the goods : FLAMMABLE LIQUID, N.O.S.  
(Ethanol, 1-methoxy-2-propanol)
- Class : 3
- Packing group : III
- Marine pollutant : no

### SECTION 15. REGULATORY INFORMATION

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

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

- SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

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**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 :

On TSCA Inventory

#### 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

#### Japan. ISHL - Inventory of Chemical Substances (METI) :

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) :

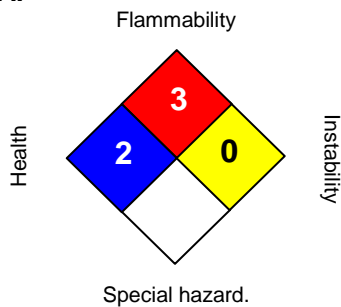
On the inventory, or in compliance with the inventory

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

On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

### NFPA:



### HMIS III:

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>2</b> |
| <b>FLAMMABILITY</b>    | <b>3</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

Issuing date : 05/25/2018



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Version : 1.2  
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.