

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : CD-234

Other means of identification : Not applicable

Recommended use : Degreaser

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.2 % - 3.1 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 05/22/2015

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification****Product AS SOLD**

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

**Product AT USE DILUTION**

Skin sensitization : Category 1

**GHS Label element****Product AS SOLD**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/ face protection. Wear protective gloves.  
**Response:**  
IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash

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before reuse.

**Disposal:**

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

**Product AT USE DILUTION**

Hazard pictograms :



Signal Word :

Warning

Hazard Statements :

May cause an allergic skin reaction.

Precautionary Statements :

**Prevention:**

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

**Response:**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.

**Disposal:**

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

**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 (%)**

d-Limonene

5989-27-5

10 - 30

alcohols, c12-14-secondary, ethoxylated

84133-50-6

5 - 10

sodium dodecylbenzene sulfonate

25155-30-0

5 - 10

dipropylene glycol methyl ether

34590-94-8

1 - 5

1-methoxy-2-propanol

107-98-2

1 - 5

**Product AT USE DILUTION**

**Chemical Name**

**CAS-No.**

**Concentration (%)**

d-Limonene

5989-27-5

0.1 - 1

## SECTION 4. FIRST AID MEASURES

**Product AS SOLD**

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 :

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.

If swallowed :

Rinse mouth. Get medical attention if symptoms occur.

If inhaled :

Get medical attention if symptoms occur.

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- 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**

- In case of eye contact : Rinse with plenty of water.
- 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.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

## **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  
Nitrogen oxides (NOx)  
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 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

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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 : 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.

**SECTION 7. HANDLING AND STORAGE**

**Product AS SOLD**

- Advice on safe handling : Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 10 °C to 50 °C

**Product AT USE DILUTION**

- Advice on safe handling : Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.
- 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**

| Ingredients                     | CAS-No.    | Form of exposure | Permissible concentration | Basis     |
|---------------------------------|------------|------------------|---------------------------|-----------|
| dipropylene glycol methyl ether | 34590-94-8 | TWA              | 100 ppm                   | ACGIH     |
|                                 |            | STEL             | 150 ppm                   | ACGIH     |
|                                 |            | STEL             | 150 ppm<br>900 mg/m3      | NIOSH REL |
|                                 |            | TWA              | 100 ppm<br>600 mg/m3      | NIOSH REL |
| 1-methoxy-2-propanol            | 107-98-2   | TWA              | 100 ppm<br>600 mg/m3      | OSHA Z1   |
|                                 |            | TWA              | 50 ppm                    | ACGIH     |
|                                 |            | STEL             | 100 ppm                   | ACGIH     |
|                                 |            | STEL             | 150 ppm<br>540 mg/m3      | NIOSH REL |
|                                 |            | TWA              | 100 ppm<br>360 mg/m3      | NIOSH REL |

- Engineering measures : Effective exhaust ventilation system Maintain air concentrations below

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occupational exposure standards.

## Personal protective equipment

- Eye protection : Safety glasses with side-shields
- 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 : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

## Product AT USE DILUTION

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

## Personal protective equipment

- Eye protection : No special protective equipment required.
- 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 : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|   | Product AS SOLD                          | Product AT USE DILUTION |
|---|--|-------------------------|
| Appearance                              | : gel                                    | liquid                  |
| Color                                   | : amber                                  | amber                   |
| Odor                                    | : citrus                                 | slight                  |
| pH                                      | : 8.0 - 9.0, 100 %                       | 7.8 - 8.8               |
| Flash point                             | : 999 °C closed cup, Sustains combustion |                         |
| Odor Threshold                          | : No data available                      |                         |
| Melting point/freezing point            | : No data available                      |                         |
| Initial boiling point and boiling range | : > 100 °C                               |                         |
| Evaporation rate                        | : No data available                      |                         |
| Flammability (solid, gas)               | : No data available                      |                         |
| Upper explosion limit                   | : No data available                      |                         |
| Lower explosion limit                   | : No data available                      |                         |

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Vapor pressure : No data available  
Relative vapor density : No data available  
Relative density : 0.963 - 0.993  
Water solubility : soluble  
Solubility in other solvents : No data available  
Partition coefficient: n-octanol/water : No data available  
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

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 : None known.  
Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
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 irritation.  
Skin : Causes skin irritation. May cause allergic skin reaction.  
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.

#### Product AT USE DILUTION

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

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Skin : May cause allergic skin reaction.  
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, Irritation  
Skin contact : Redness, Irritation, Allergic reactions  
Ingestion : No symptoms known or expected.  
Inhalation : No symptoms known or expected.

### Product AT USE DILUTION

Eye contact : No symptoms known or expected.  
Skin contact : Redness, Irritation, Allergic reactions  
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 : No data available  
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

### Ingredients

Acute inhalation toxicity : 1-methoxy-2-propanol  
4 h LC50 Rat: 27.3 mg/l

### Ingredients

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Acute dermal toxicity : d-Limonene  
LD50 Rabbit: > 5,000 mg/kg

alcohols, c12-14-secondary, ethoxylated  
LD50 Rabbit: > 2,000 mg/kg

dipropylene glycol methyl ether  
LD50 Rabbit: 9,510 mg/kg

1-methoxy-2-propanol  
LD50 Rabbit: > 13,000 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

### Product AS SOLD

#### Ecotoxicity

Environmental Effects : Toxic to aquatic life with long lasting effects.

#### Product

Toxicity to fish : 96 h LC50: 10.5 mg/l

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

#### Persistence and degradability

No data available

#### 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 : The product should not be allowed to enter drains, water courses or the soil. 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 : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance



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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.

## 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)

UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Limonene)  
Class : 9  
Packing group : III  
Marine pollutant : yes

### Product AT USE DILUTION

Not intended for transport.

## SECTION 15. REGULATORY INFORMATION

### Product AS SOLD

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

#### CERCLA Reportable Quantity

| Ingredients                     | CAS-No.    | Component RQ (lbs) | Calculated product RQ (lbs) |
|---------------------------------|------------|--------------------|-----------------------------|
| sodium dodecylbenzene sulfonate | 25155-30-0 | 1000               | 11467                       |

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

**SARA 311/312 Hazards** : Acute Health Hazard

**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.

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

**Switzerland. New notified substances and declared preparations :**

The mixture contains substances listed on the Swiss Inventory

**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) :**

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

**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) :**

not determined

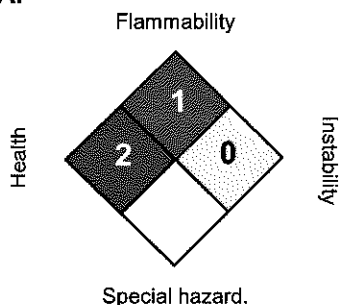
**China. Inventory of Existing Chemical Substances in China (IECSC) :**

On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

**Product AS SOLD**

**NFPA:**



**HMIS III:**

|                 |    |
|-----------------|----|
| HEALTH          | 2* |
| FLAMMABILITY    | 1  |
| PHYSICAL HAZARD | 0  |

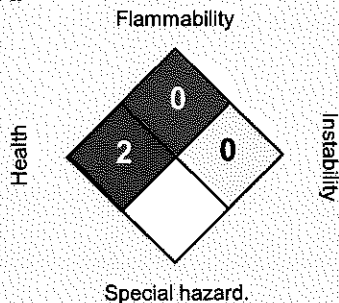
0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

**Product AT USE DILUTION**

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## NFPA:



## HMIS III:

|                 |    |
|-----------------|----|
| HEALTH          | 2* |
| FLAMMABILITY    | 0  |
| PHYSICAL HAZARD | 0  |

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

Issuing date : 05/22/2015  
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.