

SAFETY DATA SHEET

DISINFECTANT CLEANER 2.0

Section 1. Chemical product and company identification

Product name : DISINFECTANT CLEANER 2.0
Recommended use and restrictions : disinfectant
Use only for the purpose on the product label.

Product dilution information : Up to 2 oz/gal or 15.6 mL/L in water

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 900850

Date of issue : 27 Mar 2013

EPA Registration No. : 47371-37-1677

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 : ACUTE TOXICITY: SKIN - Category 4
SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 2A

GHS label elements

Signal word : Warning

Symbol :



Hazard statements : Harmful in contact with skin.
Causes serious eye irritation.

Precautionary statements

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

Response : IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. 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 attention.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

Section 2. Hazards identification

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

| Hazardous ingredients | Concentration Range (%) | CAS number |
|---|-------------------------|------------|
| alcohols, c12-15, ethoxylated | 1 - 5 | 68131-39-5 |
| Didecyl dimethyl ammonium chloride, n-Alkyl (C14 50%, C12 40%, C16 10%) | 1.875 | 7173-51-5 |
| dimethyl benzyl ammonium chloride | 1.250 | 68424-85-1 |

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 | Product AT USE DILUTION |
|-----------------------------------|---|---|
| Eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists. | No known effect after eye contact. Rinse with water for a few minutes. |
| Skin contact | : Wash with plenty of soap and water. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. | No known effect after skin contact. Rinse with water for a few minutes. |
| Inhalation | : No special measures required. Treat symptomatically. | No special measures required. Treat symptomatically. |
| Ingestion | : Get medical attention if symptoms occur. | Get medical attention if symptoms occur. |
| 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. | |
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. | |

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 nitrogen oxides halogenated compounds |
| 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 | Product AT USE DILUTION |
|----------------------------------|--|--|
| Personal precautions | : Use personal protective equipment as required. | Use personal protective equipment as required. |
| Environmental precautions | : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. | Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. |
| Methods for cleaning up | : Use a water rinse for final clean-up. | Use a water rinse for final clean-up. |

Section 7. Handling and storage

| | Product AS SOLD | Product AT USE DILUTION |
|-----------------|---|---------------------------------|
| 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. Wash thoroughly after handling. | Wash thoroughly after handling. |
| Storage | : Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 0 and 50°C | Keep out of reach of children. |

Section 8. Exposure controls/personal protection

Control parameters

| Ingredient name | Exposure limits |
|-----------------|-----------------|
| None. | |

| | Product AS SOLD | Product AT USE DILUTION |
|---|--|--|
| 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. | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Personal protection | | |
| Eye protection | : Wear eye protection. | No protective equipment is needed under normal use conditions. |
| Hand protection | : No protective equipment is needed under normal use conditions. | No protective equipment is needed under normal use conditions. |
| Skin protection | : No protective equipment is needed under normal use conditions. | No protective equipment is needed under normal use conditions. |
| Respiratory protection | : A respirator is not needed under normal and intended conditions of product use. | A respirator is not needed under normal and intended conditions of product use. |
| 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. | |

Section 9. Physical and chemical properties

| | Product AS SOLD |
|---|--|
| Physical state | : Liquid. |
| Color | : Green |
| Odor | : citrus |
| pH | : 10 to 12 (100%) |
| Flash point | : 88 °C (Closed cup) Product does not support combustion. |
| Explosion limits | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Melting point | : Not available. |
| Boiling point | : Not available. |
| Evaporation rate (butyl acetate = 1) | : Not available. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |
| Relative density | : 0.9755 to 1.0155 (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.
Green
citrus
9 to 11.5
> 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 | : Not available. |
| 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

Product AS SOLD

| <u>Symptoms</u> | |
|---------------------|--|
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Skin contact | : No specific data. |
| Inhalation | : No specific data. |
| Ingestion | : No specific data. |

Product AT USE DILUTION

No specific data.

No specific data.
No specific data.
No specific data.

Section 11. Toxicological information

Acute toxicity

Eye contact : Causes serious eye irritation.

Skin contact : Harmful in contact with skin.

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Toxicity data

Product/ingredient name

| | | | |
|--|-----------------|--------|-------------|
| alcohols, c12-15, ethoxylated | LD50 Dermal | Rat | >2000 mg/kg |
| | LD50 Oral | Rat | 1700 mg/kg |
| didecyldimethylammonium chloride | LC50 Inhalation | Rat | 0.07 mg/l |
| | Dusts and mists | | |
| | LD50 Dermal | Rabbit | 2930 mg/kg |
| | LD50 Oral | Rat | 1150 mg/kg |
| quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides | LD50 Dermal | Rabbit | 3340 mg/kg |
| | LD50 Oral | Rat | 344 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 : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|-----------------------|---------|----------|
| alcohols, c12-15, ethoxylated | Acute LC50 1.4 mg/l | Fish | 96 hours |
| didecyldimethylammonium chloride | Acute LC50 <1 mg/l | Fish | 96 hours |
| quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides | Acute LC50 0.515 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.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

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 : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

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.

EPA Registration No. : 47371-37-1677

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 | 2 |
| Flammability | 1 |
| Physical hazards | 0 |
| | |

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



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 Prepared by : Regulatory Affairs
 1-800-352-5326

Notice to reader

Product AT USE DILUTION

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



Section 16. Other information

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.