

Material Safety Data Sheet



A-456 II DISINFECTANT CLEANER

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Section 1. Chemical product and company identification

Trade name : A-456 II DISINFECTANT CLEANER
 Product use : Cleaner and disinfectant
 Supplier : Ecolab Inc.
 370 N. Webster St.
 St. Paul, MN 55102
 1-800-352-5326
 Code : 903964-01
 Date of issue : 04-September-2007
 EPA Registration No. : 6836-78-1677
EMERGENCY HEALTH INFORMATION: 1-800-328-0026
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

Name	CAS number	% by weight
quaternary ammonium compounds, di-c8-10-alkyldimethyl chlorides	68424-95-3	5-20
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	68424-85-1	5-20
alcohols, c8-11, ethoxylated	68439-46-3	5-20
ethanol	64-17-5	1-5
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	1-5
disodium metasilicate	6834-92-0	1-5

Section 3. Hazards identification

Physical state : Liquid [liquid]
 Emergency overview : DANGEROUS
 CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.
 COMBUSTIBLE LIQUID AND VAPOR.
 HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.
 Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe vapor or mist. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects:
 Eyes : Corrosive to eyes.
 Skin : Corrosive to the skin.
 Inhalation : Corrosive to the respiratory system.
 Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
 See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

Flash point : 58-3333 °C (Closed cup)
 Fire-fighting media and instructions : In case of fire, use water spray (fog), foam, dry chemical, or CO₂.
 Dike liquid for later disposal.
 Combustible liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Special protective equipment : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode for fire-fighters.

Section 6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment. Do not touch or walk through spilled material.
Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable material) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash thoroughly after handling.
Storage : Keep out of the reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
 Do not store above the following temperature: 50°C

Section 8. Exposure controls, personal protection

Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protection:

Eyes : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
Hands : Use chemical-resistant, impervious gloves.
Skin : Wear suitable protective clothing.
Respiratory : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Exposure limits

ACGIH TLV (United States, 1/2006)
 TWA: 1880 mg/m³ 8 hour(s)
 TWA: 1000 ppm 8 hour(s)
OSHA PEL (United States, 1/2006)
 TWA: 1900 mg/m³ 8 hour(s)
 TWA: 1000 ppm 8 hour(s)

Section 9. Physical and chemical properties

Physical state : Liquid [Liquid]
Color : Purple [Dark]
Odor : Floral
pH : 13 [Conc. (% w/w): 100%]
Specific gravity : 1.01

Section 10. Stability and reactivity

Stability : The product is stable.
Reactivity : Slightly reactive to reactive with acids.

Section 11. Toxicological information

Potential acute health effects
Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Corrosive to the respiratory system.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
Potential chronic health effects
Chronic effects on humans : Contains material which causes damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, central nervous system (CNS).

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Waste classification : Unused product is D002 (Corrosive)
Unused product is D001 (Ignitable)
Consult your local or regional authorities.

Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT	Not				Not available.
Classification	regulated.				

APPLIES ONLY DURING ROAD TRANSPORT
Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Combustible liquid
Corrosive material
U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
TSCA 8(b) inventory : All materials are listed or exempt.
California Prop. 65 : No products were found.
EPA Registration No. : 6636-78-1677

Section 16. Other information

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

Hazard	3
Flammability	2
Physical hazards	0

Date of issue : 04-September-2007.
Responsible name : Regulatory Affairs
Date of previous issue : 15-March-2006.

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.**