

Material Safety Data Sheet



A-456-N

Section 1. Chemical product and company identification

Trade name : A-456-N
Product use : Cleaner and disinfectant
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 910580
Date of issue : 01-February-2008

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

<u>Name</u>	<u>CAS number % by weight</u>	
didecyltrimethylammonium chloride	7173-51-5	7 - 13
alkyl dimethyl benzyl ammonium chloride	8001-54-5	5- 10
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	3 - 7
1-octanamine, n,n-dimethyl-, n-oxide	2605-78-9	1 - 5
ethanol	64-17-5	1 - 5

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : DANGER!
CAUSES EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED.
Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion
Potential acute health effects
Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : No known significant effects or critical hazards.
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

Auto-ignition temperature	: Not available.
Flash point	: > 100°C
Flammable limits	
Upper:	Not available.
Lower:	Not available.
Products of combustion	: Decomposition products may include the following materials: halogenated compounds, hydrogen chloride.
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire. Dyke liquid for later disposal. No specific hazard.
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.

Risk of explosion of the product in the presence of mechanical impact: Not available.

Risk of explosion of the product in the presence of static discharge: Not available.

Section 6. Accidental release measures

Personal Precautions	: Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses.
Environmental precautions	: Avoid dispersal of spilt 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 spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain material to ensure runoff does not reach a waterway. Place spilt 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. Avoid breathing vapour or mist. Wash thoroughly after handling.
Storage	: Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store below the following temperature: 0°C

Section 8. Exposure controls, personal protection

Engineering measures	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
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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	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.
Respiratory	: A respirator is not needed under normal and intended conditions of product use.

Name

ethanol

Exposure limits

ACGIH TLV (United States, 1/2007).

TWA: 1880 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Colour	: Red.
Odour	: Odourless.
pH	: 7.8 [Conc. (% w/w): 100%]
Boiling/condensation point	: >100°C (>212°F)
Melting/freezing point	: Not available.
Specific gravity	: 0.998
Vapour pressure	: Not available.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not available.
LogK _{ow}	: Not available.

Section 10. Stability and reactivity

Stability	: The product is stable.
Conditions of instability	: Not available.
Reactivity	: Not available.
Hazardous Decomposition Products	: Decomposition products may include the following materials: halogenated compounds, hydrogen chloride.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Corrosive to the skin.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: Harmful if swallowed. Causes burns to mouth, throat and stomach.
Irritancy of Product	: Hazardous by WHMIS criteria.

Potential chronic health effects

Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: No known significant effects or critical hazards.
Teratogenic effects	: No known significant effects or critical hazards.
Reproductive effects	: No known significant effects or critical hazards.
Sensitization to Product	: No known significant effects or critical hazards.
Synergistic products (toxicologically)	: Not available.

Toxicity data

<u>Ingredient name</u>	<u>Test</u>	<u>Route</u>	<u>Result</u>	<u>Species</u>
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	LD50	Oral	10 g/kg	Rat
didecyldimethylammonium chloride	LD50	Oral	7 g/kg	Rabbit
	LD50	Oral	84 mg/kg	Rat
	LD50	Oral	268 mg/kg	Mouse
ethanol	LD50	Oral	7060 mg/kg	Rat
	LD50	Oral	6300 mg/kg	Rabbit
	LD50	Oral	7 g/kg	Rat
alkyl dimethyl benzyl ammonium chloride	LD50	Oral	240 mg/kg	Rat
	LDLo	Oral	250 mg/kg	Rat

Target organs : Contains material which may cause damage to the following organs: mucous membranes, upper respiratory tract, central nervous system (CNS).

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	Fish - Bluegill - Lepomis macrochirus	96 hours	Acute LC50 3092000 to 3540000 ug/L Fresh water
	Fish - Bluegill - Lepomis macrochirus	96 hours	Acute LC50 2070000 to 2180000 ug/L Fresh water
	Fish - Bluegill - Lepomis macrochirus	96 hours	Acute LC50 1030000 to 1080000 ug/L Fresh water
	Fish - Bluegill - Lepomis macrochirus	96 hours	Acute LC50 486000 to 500000 ug/L Fresh water
didecyldimethylammonium chloride	Daphnia	48 hours	Acute EC50 0.094 mg/L
	Daphnia	48 hours	Acute EC50 0.059 mg/L
	Daphnia	48 hours	Acute EC50 0.018 mg/L
	Fish	96 hours	Acute LC50 0.33 mg/L
ethanol	Fish	96 hours	Acute LC50 0.32 mg/L
	Fish	96 hours	Acute LC50 0.27 mg/L
	Fish	96 hours	Acute LC50 13000 mg/L
	Fish	96 hours	Acute LC50 >100 mg/L
alkyl dimethyl benzyl ammonium chloride	Daphnia	48 hours	Acute EC50 0.056 mg/L
	Daphnia	48 hours	Acute EC50 0.039 mg/L
	Daphnia	48 hours	Acute EC50 0.018 mg/L
	Fish	96 hours	Acute LC50 1.3 mg/L
	Fish	96 hours	Acute LC50 1.15 mg/L
	Fish	96 hours	Acute LC50 0.32 mg/L

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt 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.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
TDG Classification	Not regulated.	-	-	-	-

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

WHMIS : Not a WHMIS controlled material.
DIN02067234

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

Section 16. Other information

Date of issue : 01-February-2008.
Responsible name : Regulatory Affairs
1-800-352-5326
Date of previous issue : 16-February-2005.

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.**