

Material Safety Data Sheet



A-33 DRY

Section 1. Chemical product and company identification

Trade name : A-33 DRY
Product use : disinfectant
Supplier : Ecolab Co.
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 910630
Date of issue : 25-April-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</u>	<u>% by weight</u>
urea	57-13-6	15 - 40
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	68424-85-1	7 - 13
sodium carbonate	497-19-8	1 - 5
quaternary ammonium compounds, di-c8-10-alkyldimethyl, chlorides	68424-95-3	1 - 5
1-octanaminium, n,n-dimethyl-n-octyl-, chloride	5538-94-3	0.1 - 1

Section 3. Hazards identification

Physical state : Solid. [Powder.]

Emergency overview : DANGER !

CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.
MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe dust. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Ingestion

Potential acute health effects

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin.

Inhalation : Corrosive to the respiratory system.

Ingestion : Harmful if swallowed. May cause 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. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention immediately.

Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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** : Not available.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
sulfur oxides
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
Dyke area of fire to prevent runoff.
- No specific fire or explosion 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** : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilt material.
- 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, vacuum or carefully scoop up spilt material and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

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 dust. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store below the following temperature: 0°C

Section 8. Exposure controls, personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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** : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state	: Solid. [Powder.]
Colour	: Green.
Odour	: Faint odour.
pH	: 10.1 [Conc. (% w/w): 1%]
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not applicable.
LogK _{ow}	: Not available.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability	: Not available.
Reactivity	: Not available.
Hazardous Decomposition Products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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. May cause burns to mouth, throat and stomach.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.

<u>Ingredient name</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Not applicable.				

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>
urea	LD50	Oral	11 g/kg	Mouse
	LD50	Oral	8471 mg/kg	Rat
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	LD50	Dermal	3340 mg/kg	Rabbit
	LD50	Oral	919 mg/kg	Mouse
sodium carbonate	LD50	Oral	426 mg/kg	Rat
	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	6600 mg/kg	Mouse
	LD50	Oral	4090 mg/kg	Rat

Target organs : Not available.

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
urea	Daphnia	48 hours	Acute EC50 3910 mg/L
	Fish	96 hours	Acute LC50 17500 mg/L
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	Daphnia	48 hours	Acute EC50 0.052 mg/L
	Daphnia	48 hours	Acute EC50 0.037 mg/L
	Daphnia	48 hours	Acute EC50 0.025 mg/l
	Fish	96 hours	Acute LC50 0.51 mg/L
	Fish	96 hours	Acute LC50 0.32 mg/L
	Fish	96 hours	Acute LC50 0.28 mg/L
	Fish	96 hours	Acute LC50 0.28 mg/L
sodium carbonate	Daphnia	48 hours	Acute EC50 347 mg/L
	Fish	96 hours	Acute LC50 740 mg/L
	Fish	96 hours	Acute LC50 <850 mg/l
	Fish	96 hours	Acute LC50 320 mg/l
	Fish	96 hours	Acute LC50 300 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	-	Consumer commodity	-	-	-

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.
DIN02035707
PCP25051

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 : 25-April-2008.
Responsible name : Regulatory Affairs
1-800-352-5326
Date of previous issue : 22-April-2005.
Notice to reader

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.**