

Material Safety Data Sheet



ENDURE 420 CIDA-STAT

Section 1. Chemical product and company identification

Trade name : ENDURE 420 CIDA-STAT
Product use : Hand disinfectant
Supplier : Ecolab Healthcare Division
370 Wabasha Street N
St. Paul MN 55102
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 920995-12
Date of issue : 17-February-2005

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352

Section 2. Composition, Information on Ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
amines, coco alkyl dimethyl, n-oxides	61788-90-7	3 - 7
propan-2-ol	67-63-0	3 - 7
propylene glycol	57-55-6	3 - 7
d-gluconic acid, compd. with n,n"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1)	18472-51-0	1 - 5
amides, coco, n,n-bis(hydroxyethyl)	68603-42-9	1 - 5
poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-[(1-oxooctadecyl)oxy]-	9005-08-7	0.5 - 1.5

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)

Emergency overview : Warning!

CAUSES SEVERE EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION.

MAY BE HARMFUL IF SWALLOWED.

COMBUSTIBLE LIQUID AND VAPOUR. VAPOUR MAY CAUSE FIRE.

Do not use in the perineal or eyelid areas. Do not instill in the middle ear – may cause deafness if ear drum is perforated. Avoid contact with eyes.

Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Eyes : Severely irritating to eyes.

Skin : May cause sensitisation by skin contact.

Inhalation : Slightly irritating to the respiratory system.

Ingestion : Irritating 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. Obtain medical attention immediately.
- Skin Contact** : Flush contaminated skin with a copious amount of water. Wash clothing before reuse.
- Inhalation** : If inhaled, remove to fresh air.
- Ingestion** : Rinse mouth; then drink one or two large glasses of water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire fighting measures

- Auto-ignition temperature** : Not available.
- Flash point** : 48.3333 °C (Closed cup)
- Flammable limits**
- Upper:** Not available.
 - Lower:** Not available.
- Products of combustion** : These products are halogenated compounds, hydrogen chloride.
- Fire-fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemical or CO₂ extinguisher or spray.
- Dike area of fire to prevent product run-off.
- Combustible liquid and vapour. May burn, but does not ignite readily. Under high temperatures or under moderate heating might release vapor in sufficient quantities to produce hazardous atmospheres with air.
- 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.

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

Risks of explosion of the product in 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. Prevent entry into sewers, water courses, basements or confined areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- 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 materials) and use a non-sparking or explosion proof means to transfer material to a sealed, 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. Avoid contact with eyes. Keep away from heat, sparks and flame. To avoid fire, minimise 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 35°C

Section 8. Exposure Controls, Personal Protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes : Use safety eyewear designed to protect against splash of liquids.
Hands : No protective equipment is needed under normal use conditions.
Skin : No protective equipment is needed under normal use conditions.
Respiratory : No protective equipment is needed under normal use conditions.

Name

propan-2-ol

Exposure limits

ACGIH TLV (United States, 1/2004). Notes: ACGIH 2003 Adoption Refers to Appendix A -- Carcinogens.

STEL: 400 ppm 15 minute(s). Form: All forms

TWA: 200 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)
Colour : Amber.
Odour : Floral.
pH : 6.75 (100%)
Boiling/condensation point : >100 °C
Melting/freezing point : Not available.
Specific gravity : 1 (Water = 1)
Vapour pressure : Not applicable.
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.
Incompatibility with various substances : Not available.
Hazardous Decomposition Products : These products are halogenated compounds, hydrogen chloride.

Section 11. Toxicological information

Potential acute health effects

Eyes : Severely irritating to eyes.
Skin : May cause sensitisation by skin contact.
Inhalation : Slightly irritating to the respiratory system.
Ingestion : Irritating 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 : May cause sensitisation by skin contact.

Synergistic Products (Toxicologically) : Not available.

Toxicity data

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
propan-2-ol	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LDLo	1537 mg/kg	Oral	Dog
	LDLo	3570 mg/kg	Oral	human
	LDLo	5272 mg/kg	Oral	man
propylene glycol	LD50	18500 mg/kg	Oral	Rabbit
	LD50	>2080 mg/kg	Oral	quail
	LD50	18350 mg/kg	Oral	Guinea pig
	LD50	20800 mg/kg	Dermal	Rabbit
d-gluconic acid, compd. with n,n"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediiimidamide (2:1)	LD50	1260 mg/kg	Oral	Mouse

Target organs : Causes damage to the following organs: eyes, ears.
Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
propan-2-ol	Pimephales promelas (EC50)	48 hour(s)	10000 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l
propylene glycol	Daphnia magna (EC50)	48 hour(s)	>10000 mg/l
	Pimephales promelas (LC50)	96 hour(s)	710 mg/l
	Pimephales promelas (LC50)	96 hour(s)	55770 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>62000 mg/l

Products of degradation : These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...), halogenated compounds.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised 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.

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.
DIN02240416

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 : 17-February-2005.

Responsible name : Regulatory Affairs

Date of previous issue : No Previous Validation.

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.**