

Material Safety Data Sheet



ENDURE 320 ADVANCED CARE

Section 1. Chemical product and company identification

Trade name : ENDURE 320 ADVANCED CARE
Product use : Skin antiseptic
Supplier : Ecolab Healthcare Division
370 Wabasha Street N
St. Paul MN 55102
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 905218
Date of issue : 13-December-2005

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
ethanol	64-17-5	40 - 70

Section 3. Hazards identification

Physical state : Liquid. (Gel)
Emergency overview : CAUTION!
FLAMMABLE LIQUID AND VAPOUR.
VAPOUR MAY CAUSE FLASH FIRE.
MAY CAUSE EYE IRRITATION.
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 : Slightly irritating to the eyes.
Skin : No known significant effects or critical hazards.
Inhalation : Slightly irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Section 4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation occurs.
Skin Contact : Flush contaminated skin with plenty of water. Wash clothing before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

Section 5. Fire-fighting measures

Auto-ignition temperature : Not available.
Flash point : 26.1111 °C (Open cup)

Flammable limits

Upper: Not available.

Lower: Not available.

Products of combustion : Not available.

Fire-fighting media and instructions: In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Dyke area of fire to prevent runoff.

Flammable liquid and vapour. Vapour may cause flash fire. Vapours 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 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. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (section 8). 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.

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) 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 spilt material in an appropriate container for disposal.

Section 7. Handling and storage**Handling**

: 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 25°C

Section 8. Exposure controls, personal protection**Engineering controls**

: Good general ventilation should be sufficient to control airborne levels.

Personal protection**Eyes**

: No protective equipment is needed under normal use conditions.

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

ethanol

Exposure limits

ACGIH TLV (United States, 1/2004). Notes: 1996 Adoption Refers to Appendix A -- Carcinogens.

TWA: 1880 mg/m³ 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties**Physical state**

: Liquid. (Gel)

Colour

: White.

Odour

: Alcohol-like.

pH

: 7.75 (100%)

Boiling/condensation point

: Not available.

Melting/freezing point

: Not available.

Specific gravity

: 0.871 (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 : Not available.
 Products

Section 11. Toxicological information

Potential acute health effects

Eyes : Slightly irritating to the eyes.
 Skin : No known significant effects or critical hazards.
 Inhalation : Slightly irritating to the respiratory system.
 Ingestion : No known significant effects or critical hazards.
 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>Result</u>	<u>Route</u>	<u>Species</u>
ethanol	LD50	7060 mg/kg	Oral	Rat
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	3450 mg/kg	Oral	Mouse
	LDLo	1400 mg/kg	Oral	human
	LDLo	5500 mg/kg	Oral	Dog

Target organs : Contains material which causes damage to the following organs: blood, the reproductive system, liver, 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>
ethanol	Daphnia magna (EC50)	48 hour(s)	2 mg/l
	Daphnia magna (EC50)	48 hour(s)	9.3 mg/l
	Daphnia magna (EC50)	48 hour(s)	>100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13000 mg/l

Products of degradation : These products are carbon oxides (CO, CO₂) and water.

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	UN1170	ETHANOL SOLUTION	3	II	<u>Explosive Limit and Limited Quantity Index</u> 1

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.
DIN02247983

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 : 13-December-2005.
Responsible name : Regulatory Affairs
Date of previous issue : 29-June-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.