

Material Safety Data Sheet



ENCOMPASS

Section 1. Chemical product and company identification

Trade name : ENCOMPASS
Product use : Cleaning product
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 942797
Date of issue : 17-March-2006

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>
2-(2-methoxyethoxy)ethanol	111-77-3	2
9-octadecenoic acid (z)-, compd. with 2-aminoethanol (1:1)	2272-11-9	5 - 20
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	1 - 5
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	1 - 5
2-aminoethanol	141-43-5	1 - 5

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : Moderately 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 cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention.
Skin contact : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

Flash point : > 100°C
Product does not support combustion.
Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.
Dike 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.

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 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), scoop up material and place in a sealable, liquid-proof 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 : Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. 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 above -10°C

Section 8. Exposure controls, personal protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal protection

Eyes : Eye protection recommended.

Hands : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.

Skin : No protective equipment is needed under normal use conditions.

Respiratory : Avoid breathing vapors, spray or mists.

Name

2-aminoethanol

Exposure limits

ACGIH TLV (United States, 1/2005).

STEL: 15 mg/m³ 15 minute/minutes. Form: All forms

STEL: 6 ppm 15 minute/minutes. Form: All forms

TWA: 7.5 mg/m³ 8 hour(s). Form: All forms

TWA: 3 ppm 8 hour(s). Form: All forms

OSHA PEL (United States, 8/1997).

TWA: 6 mg/m³ 8 hour(s). Form: All forms

TWA: 3 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)

Color : Yellow. (Light.)

Odor : Faint odor.

pH : 10.6 (100%)

Boiling/condensation point : >100 °C

Specific gravity : 1.02 (Water = 1)

Viscosity : Dynamic: 210 cP

Dispersibility properties : Easily dispersed in cold water, hot water.

Solubility : Easily soluble in cold water, hot water.

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 : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : Moderately irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.
Chronic effects on humans : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
 Contains material which may cause damage to the following organs: kidneys, the reproductive system, liver, spleen, testes.

Section 12. Ecological information

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

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.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT 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

HCS Classification : Irritating material
 Target organ effects

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.

SARA 313 Product name Concentration
Form R - Reporting requirements: 2-(2-methoxyethoxy)ethanol 1.98 - 2

California Prop. 65 : No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.)	:	Health *	1
		Fire hazard	0
		Reactivity	0
		Personal protection	B

Date of issue : 17-March-2006.
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.