

# Material Safety Data Sheet

**ECOLAB**

ANTIBACTERIAL CLEAN &amp; SMOOTH

## Section 1. Chemical product and company identification

**Trade name** : ANTIBACTERIAL CLEAN & SMOOTH  
**Product use** : Skin Cleaner  
**Supplier** : Ecolab Co.  
5105 Tomken Road  
Mississauga ON L4W 2X5  
1-800-352-5326  
**Code** : 911724-01  
**Date of issue** : 22-December-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>
ethanol	64-17-5	1 - 5
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	68585-34-2	1 - 5
2-methylpentane-2,4-diol	107-41-5	1 - 5
boric acid	10043-35-3	0.1 - 1

## Section 3. Hazards identification

**Physical state** : Liquid. (Gel)  
**Emergency overview** : CAUTION!  
MAY CAUSE EYE IRRITATION.  
Avoid contact with eyes.  
**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 cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.  
**Skin Contact** : Get medical attention if symptoms appear. Wash clothing 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

**Auto-ignition temperature** : Not available.  
**Flash point** : > 100°C  
**Flammable limits**  
**Upper:** Not available.  
**Lower:** Not available.  
**Products of combustion** : Not available.  
**Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.  
Dyke liquid for later disposal.

**Special protective equipment for fire-fighters** : No specific hazard.  
: 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.

**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** : 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 50°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** : A respirator is not needed under normal and intended conditions of product use.

### Name

ethanol

### Exposure limits

**ACGIH TLV (United States, 1/2005).**

TWA: 1880 mg/m<sup>3</sup> 8 hour(s). Form: All forms

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

2-methylpentane-2,4-diol

**ACGIH TLV (United States, 1/2005).**

CEIL: 121 mg/m<sup>3</sup> Form: All forms

CEIL: 25 ppm Form: All forms

boric acid

**ACGIH TLV (United States, 1/2005).**

STEL: 6 mg/m<sup>3</sup> 15 minute/minutes. Form: All forms

TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: All forms

## Section 9. Physical and chemical properties

**Physical state** : Liquid. (Gel)

**Colour** : Blue.

**Odour** : Sweetish.

**pH** : 8.75 (100%)

**Boiling/condensation point** : Not available.

**Melting/freezing point** : Not available.

**Specific gravity** : 1.02 (Water = 1)

**Vapour pressure** : Not applicable.

**Vapour density** : Not available.

**Odour threshold** : Not available.

**Evaporation rate** : Not available.

**LogK<sub>ow</sub>** : 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** : Hazardous by WHMIS criteria.

**Sensitization to Product** : No known significant effects or critical hazards.

**Synergistic products (toxicologically)** : Not available.

### Toxicity data

<u><b>Ingredient name</b></u>	<u><b>Test</b></u>	<u><b>Result</b></u>	<u><b>Route</b></u>	<u><b>Species</b></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
2-methylpentane-2,4-diol	LD50	3700 mg/kg	Oral	Rat
	LD50	3200 mg/kg	Oral	Rabbit
	LD50	2800 mg/kg	Oral	Guinea pig
boric acid	LD50	2660 mg/kg	Oral	Rat
	LD50	3450 mg/kg	Oral	Mouse
	LDLo	200 mg/kg	Oral	woman
	LDLo	429 mg/kg	Oral	man
	LDLo	934 mg/kg	Oral	infant
	LDLo	1200 mg/kg	Dermal	infant
	LDLo	1500 mg/kg	Dermal	child
	LDLo	2430 mg/kg	Dermal	man

**Target organs** : Contains material which causes damage to the following organs: blood, the reproductive system, liver, mucous membranes, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

## Section 12. Ecological information

### Ecotoxicity data

<u><b>Ingredient name</b></u>	<u><b>Species</b></u>	<u><b>Period</b></u>	<u><b>Result</b></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
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13000 mg/l
2-methylpentane-2,4-diol	Daphnia magna (EC50)	48 hour(s)	3200 mg/l
	Daphnia pulex (EC50)	48 hour(s)	3300 mg/l

boric acid	Lepomis macrochirus (LC50)	96 hour(s)	>10000 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10700 mg/l
	Daphnia magna (EC50)	48 hour(s)	133 mg/l
	Daphnia magna (EC50)	48 hour(s)	226 mg/l
	Daphnia magna (EC50)	48 hour(s)	777 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	>800 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1021 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	>1100 mg/l

**Products of degradation** : These products are carbon oxides (CO, CO<sub>2</sub>) and water. Some metallic oxides.

## 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
<b>TDG Classification</b>	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.  
DIN 02283816

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** : 22-December-2006.  
**Responsible name** : Regulatory Affairs  
**Date of previous issue** : 28-July-2006.

### 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.