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Material Safety Data Sheet

ECOLAB[®]

PHAZER STRATUS

Section 1. Chemical product and company identification

Trade name : PHAZER STRATUS
 Product use : Floor care product
 Supplier : Ecolab Co.
 5105 Tomken Road
 Mississauga ON L4W 2X5
 1-800-352-5326
 Code : 912124-04
 Date of issue : 03-December-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

Name	CAS number	% by weight
ethanol, 2-(2-ethoxyethoxy)-	111-90-0	3 - 7

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
 Emergency overview : CAUTION!
 MAY CAUSE EYE IRRITATION.
 Avoid contact with eyes. Wash thoroughly after handling.
 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 : No known significant effects or critical hazards.
 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 persists.
 Skin contact : In case of contact, immediately flush skin with plenty of water. 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
 Product does not support combustion.
 Flammable limits : Not available.
 Hazardous thermal decomposition products : Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide
 phosphorus oxides
 Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.
 Dyke area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

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 : Use suitable protective equipment (section 8). 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 : 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 it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Avoid contact with eyes. Wash thoroughly after handling.

Storage : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.

Store between the following temperatures: 10 and 45°C

Section 8. Exposure controls/personal protection

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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, 2-(2-ethoxyethoxy)-

Exposure limits

CA Ontario Provincial (Canada, 3/2007). Absorbed through skin.

TWAEV: 2 mg/m³ 8 hour(s).

TWAEV: 0.5 ppm 8 hour(s).

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.]

Colour : opaque

Odour : Acrylic.

pH : 8 to 8.5 [Conc. (% w/w): 100%]

Boiling/condensation point : Not available.

Melting/freezing point : Not available.

Relative density : 1.03 to 1.034

Vapour pressure : Not available.

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. 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.
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Slightly irritating to the eyes.
Skin	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenic effects	: No known significant effects or critical hazards.
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<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>
ethanol, 2-(2-ethoxyethoxy)-	LD50	Dermal	>32 gm/kg	Guinea pig
	LD50	Oral	7500 mg/kg	Rat
	LD50	Oral	7250 mg/kg	Mouse
	LC50	Inhalation	>5240 mg/m3	Rat

Target organs : Not available.

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
ethanol, 2-(2-ethoxyethoxy)-	Fish	96 hours	Acute LC50 26500 mg/L
	Fish	96 hours	Acute LC50 21400 mg/L
	Fish	96 hours	Acute LC50 13900 mg/L
	Fish	96 hours	Acute LC50 13400 mg/L
	Fish	96 hours	Acute LC50 >10000 mg/L
	Fish	96 hours	Acute LC50 9650 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

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

UN Classification Not regulated.

See shipping documents for specific transportation information.

Section 15. Regulatory information

WHMIS : Class D-2B: Material causing other toxic effects (Toxic).

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 : 03-December-2008.

Responsible name : Regulatory Affairs
1-800-352-5326

Date of previous issue : 17-October-2008.

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.