

# Material Safety Data Sheet



## ZINC FREE FINISH REMOVER

### Section 1. Chemical product and company identification

**Trade name** : ZINC FREE FINISH REMOVER  
**Product use** : Floor Stripper  
**Supplier** : Ecolab Co.

5105 Tomken Road  
Mississauga ON L4W 2X5  
1-800-352-5326

**Code** : 911821  
**Date of issue** : 13-February-2009

**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-phenoxyethanol	122-99-6	7 - 13
capric acid	334-48-5	7 - 13
xylenesulfonic acid, sodium salt	1300-72-7	7 - 13
2-(2-butoxyethoxy)ethanol	112-34-5	5- 10
2-aminoethanol	141-43-5	1 - 5
alcohols, c10-14, ethoxylated	66455-15-0	1 - 5
diethylene glycol monophenyl ether	104-68-7	0.5 - 1.5

### Section 3. Hazards identification

**Physical state** : Liquid. [Liquid.]

**Emergency overview** : CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapours, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

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

#### 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 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. Remove contaminated clothing and shoes. Get medical attention if irritation persists. 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

- Auto-ignition temperature** : Not available.
- Flash point** : >100 °C (Closed cup)
- Flammable limits** : Not available.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
metal oxide/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. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- 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, skin and clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. 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 50°C

## Section 8. Exposure controls/personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory 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 vapours, spray or mists.

**Name** **Exposure limits**

2-phenoxyethanol	<b>CA Ontario Provincial (Canada, 6/2008). Absorbed through skin.</b> TWA <sub>EV</sub> : 141 mg/m <sup>3</sup> 8 hour(s). TWA <sub>EV</sub> : 25 ppm 8 hour(s).
2-aminoethanol	<b>CA Alberta Provincial (Canada, 6/2008).</b> 15 min OEL: 15 mg/m <sup>3</sup> 15 minute(s). 15 min OEL: 6 ppm 15 minute(s). 8 hrs OEL: 7.5 mg/m <sup>3</sup> 8 hour(s). 8 hrs OEL: 3 ppm 8 hour(s). <b>CA British Columbia Provincial (Canada, 6/2008).</b> STEL: 6 ppm 15 minute(s). TWA: 3 ppm 8 hour(s). <b>CA Ontario Provincial (Canada, 6/2008).</b> STEV: 15 mg/m <sup>3</sup> 15 minute(s). STEV: 6 ppm 15 minute(s). TWA <sub>EV</sub> : 7.5 mg/m <sup>3</sup> 8 hour(s). TWA <sub>EV</sub> : 3 ppm 8 hour(s). <b>CA Quebec Provincial (Canada, 6/2008).</b> STEV: 15 mg/m <sup>3</sup> 15 minute(s). STEV: 6 ppm 15 minute(s). TWA <sub>EV</sub> : 7.5 mg/m <sup>3</sup> 8 hour(s). TWA <sub>EV</sub> : 3 ppm 8 hour(s).  <b>ACGIH TLV (United States, 1/2008).</b> STEL: 15 mg/m <sup>3</sup> 15 minute(s). STEL: 6 ppm 15 minute(s). TWA: 7.5 mg/m <sup>3</sup> 8 hour(s). TWA: 3 ppm 8 hour(s).

## Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Colour	: Yellow. [Light]
Odour	: Faint odour.
pH	: 7 to 8 [Conc. (% w/w): 100%]
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Relative density	: 0.94 to 1.14
Vapour pressure	: Not available.
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. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability	: Not available.
Reactivity	: Slightly reactive or incompatible with the following materials: metals, acids and alkalis.
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** : 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.

### Potential chronic health effects

- Carcinogenic effects** : No known significant effects or critical hazards.

<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>
capric acid	LD50	Oral	>10 gm/kg	Mammal - species unspecified
2-phenoxyethanol	LD50	Oral	>10 gm/kg	Rat
	LD50	Dermal	5 mL/kg	Rabbit
	LD50	Dermal	14422 mg/kg	Rat
	LD50	Oral	933 mg/kg	Mouse
2-(2-butoxyethoxy)ethanol	LD50	Oral	1260 mg/kg	Rat
	LD50	Dermal	2700 mg/kg	Rabbit
	LD50	Oral	6050 mg/kg	Mouse
	LD50	Oral	5660 mg/kg	Rat
	LD50	Oral	4500 mg/kg	Rat
	LD50	Oral	4500 mg/kg	Mouse
	LD50	Oral	2400 mg/kg	Mouse
diethylene glycol monophenyl ether	LD50	Oral	6050 mg/kg	Rat
	LD50	Dermal	2120 uL/kg	Rabbit
2-aminoethanol	LD50	Oral	2140 mg/kg	Rat
	LD50	Dermal	1 mL/kg	Rabbit
	LD50	Dermal	1018 mg/kg	Rabbit
	LD50	Oral	700 mg/kg	Mouse
	LD50	Oral	1 gm/kg	Rabbit
	LD50	Oral	1720 mg/kg	Rat
	LD50	Oral	620 mg/kg	Guinea pig

- Target organs** : Contains material which causes damage to the following organs: kidneys, liver.  
 Contains material which may cause damage to the following organs: blood, upper respiratory tract, central nervous system (CNS).

## Section 12. Ecological information

### Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
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2-phenoxyethanol	Fish	96 hours	Acute LC50 344 mg/L
2-(2-butoxyethoxy)ethanol	Fish	96 hours	Acute LC50 1300 mg/L
2-aminoethanol	Fish	96 hours	Acute LC50 2070 mg/L
	Fish	96 hours	Acute LC50 329.16 mg/L
	Fish	96 hours	Acute LC50 300 mg/L
	Fish	96 hours	Acute LC50 >300 mg/L
	Fish	96 hours	Acute LC50 >200 mg/L
	Fish	96 hours	Acute LC50 150 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** : 13-February-2009.

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

**Date of previous issue** : 16-March-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.**