

## Section 1. Chemical product and company identification

Trade name : ENVERROS FLOORSTAR DEGREASER 2

Product use : Degreaser

Supplier : Ecolab Inc.  
370 N. Wabasha St.  
St. Paul, MN 55102  
1-800-352-5326

Code : 908010-02

Date of issue : 11-September-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
2,2'-iminodiethanol	111-42-2	1
triethanolamine	102-71-6	5-20
alcohols, C10-14, ethoxylated	66455-15-0	1-5
tall oil, sodium salt	65997-01-5	1-5
dipropylene glycol methyl ether	34590-94-8	1-5
3-butoxypropan-2-ol	5131-66-8	1-5
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	1-5
potassium hydroxide	1310-58-3	<1

## Section 3. Hazards identification

Physical state : Liquid, [Liquid]

Emergency overview : DANGER!

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.

CAUSES RESPIRATORY TRACT IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

### Potential acute health effects

Eye : Corrosive to eyes.

Skin : Corrosive to the skin. May cause sensitization by skin contact.

Inhalation : Irritating to respiratory system.

Ingestion : Causes burns to mouth, throat and stomach.

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 immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if irritation persists.

Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## Section 5. Fire fighting measures

Flash point : > 100°C

Hazardous thermal decomposition products : Decomposition products may include the following materials:  
carbon dioxide  
nitrogen oxides  
metal oxide/oxides

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

Special protective equipment for fire-fighters : In a fire or if heated, a pressure increase will occur and the container may burst. 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 : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.

Environmental precautions : Avoid dispersal of spilled 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 : 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 it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

Handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, 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 lightly closed.

Do not store below the following temperature: 0°C

## Section 8. Exposure controls/personal protection

Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Personal protection:

Eyes : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hands : Use chemical-resistant, impervious gloves.

Skin : Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory : Avoid breathing vapors, spray or mists.

### Exposure limits

ACGIH TLY (United States, 1/2008).

TWA: 5 mg/m<sup>3</sup> 8 hour(s)

ACGIH TLV (United States, 1/2008). Absorbed through skin.

STEL: 909 mg/m<sup>3</sup> 15 minute(s)

STEL: 150 ppm 15 minute(s)

TWA: 606 mg/m<sup>3</sup> 8 hour(s)

TWA: 100 ppm 8 hour(s)

OSHA PEL (United States, 11/2006). Absorbed through skin.  
 TWA: 600 mg/m<sup>3</sup> 8 hour(s).  
 TWA: 100 ppm 8 hour(s).  
 ACGIH TLV (United States, 1/2008). Absorbed through skin.  
 TWA: 2 mg/m<sup>3</sup> 8 hour(s).  
 TWA: 0.46 ppm 8 hour(s).

**Section 9. Physical and chemical properties**

Physical state : Liquid. [Liquid]  
 Color : Brown. [Dark]  
 Odor : Aromatic.  
 pH : 12 to 14 [Conc. (% w/w) 100%]  
 Relative density : 1.025 to 1.045

**Section 10. Stability and reactivity**

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.  
 Reactivity : Reactive or incompatible with the following materials: metals and acids.  
 Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

**Section 11. Toxicological information**

**Potential acute health effects**  
 Eyes : Corrosive to eyes.  
 Skin : Corrosive to the skin. May cause sensitization by skin contact.  
 Inhalation : Irritating to respiratory system.  
 Ingestion : Causes burns to mouth, throat and stomach.

**Potential chronic health effects**

Target organs : Contains material which may cause damage to the following organs: upper respiratory tract, skin, central nervous system (CNS).

**Section 12. Ecological information**

**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.  
 Waste classification : Unused product is D002 (Corrosive)  
 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 UN1814  
 UN number

Proper shipping name : POTASSIUM HYDROXIDE SOLUTION  
 Class : 8  
 Packing group : III  
 See shipping documents for specific transportation information.

**Section 15. Regulatory information**

HCS Classification : Corrosive material  
 Sensitizing 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 components are listed or exempted.  
 SARA 313 Product name : 2,2'-iminodietanol  
 Form R - Reporting requirements : 111-42-2  
 California Prop. 65 : No products were found.  
 CAS number : 111-42-2  
 Concentration : 1.2375

**Section 16. Other information**

Hazardous Material Information System (U.S.A.)

Health	3
Flammability	0
Physical hazards	0

Date of issue : 11-September-2008.  
 Responsible name : Regulatory Affairs  
 Date of previous issue : 19-November-2007.  
 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.

ENVERROS FLOORSTAR DEGREASER 2 Use Solution (0.39% - 4.69%)

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 370 N. Wabasha St.  
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## Section 2. Composition, information on ingredients

To the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, according to local regulations.

## Section 3. Hazards identification

Physical state : Liquid, (Liquid.)  
 Emergency overview : CAUTION!  
 No specific hazard.

No specific hazard.

### Potential acute health effects

Eyes : No known significant effects or critical hazards.  
 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 occurs.  
 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

Flash point : >93.3 °C (Closed cup)  
 Hazardous thermal decomposition products : No specific data.  
 Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike 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.

## 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 spilled 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, dike spilled material or otherwise contain it to ensure runoff does not react a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

Handling : Wash thoroughly after handling.  
 Storage : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container lightly closed.

## 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.  
 Consult local authorities for acceptable exposure limits.

## Section 9. Physical and chemical properties

Physical state : Liquid, (Liquid.)  
 pH : 11.65  
 Relative density : 1

## Section 10. Stability and reactivity

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.  
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Potential acute health effects

Eyes : No known significant effects or critical hazards.  
 Skin : No known significant effects or critical hazards.  
 Inhalation : No known significant effects or critical hazards.  
 Ingestion : No known significant effects or critical hazards

### Section 12. Ecological information

### 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

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

UN number : Not intended for transport.  
Proper shipping name : Not available.  
Class : Not available.

Packing group :  
See shipping documents for specific transportation information.

### Section 15. Regulatory information

HCS Classification : Not regulated  
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 components are listed or exempted.

California Prop. 65 : No products were found.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



Date of issue : 11-September-2008.  
Responsible name : Regulatory Affairs  
Date of previous issue : 15-November-2007.

Notice to reader

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