

## Professional Tile & Grout Cleaner

MSDS Number: D456

Revision Date: November 15, 2013

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### 1 PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer

Kärcher North America, Inc.  
Prochem  
325 S. Price Road  
Chandler, AZ 85224

**Contact:** Prochem  
**Phone:** 480-899-7000  
**Fax:** 480-786-9538  
**Email:** info@prochem.com  
**Web:** www.prochem.com

**Product Name:** Professional Tile & Grout Cleaner  
**Revision Date:** November 15, 2013  
**Version:** 43-61D  
**MSDS Number:** D456

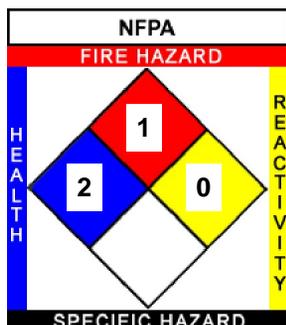
**Emergency Information:** INFOTRAC 1-800-535-5053 International 1-352-323-3500

### 2 HAZARDS IDENTIFICATION

**Route of Entry:** Eyes; Skin; Inhalation;  
**Target Organs:** Eyes; Skin;  
**Inhalation:** Minimal respiratory tract irritation is expected when product is used according to label instructions.  
**Skin Contact:** Can cause irritation and dermatitis.  
**Eye Contact:** Can cause irritation, redness and burns.  
**Ingestion:** Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

NFPA:  
HMIS III:

Health = 2, Fire = 1, Reactivity = 0  
H2/F1/PH0



HMIS III	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARDS	0
PERSONAL PROTECTION B   Safety Glasses, Gloves	

PERSONAL PROTECTION INDEX			
A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A		n	
t		o	
u		p	
w		q	
y		r	
z		s	
Additional Information			

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GHS Hazard Pictograms:



GHS Classifications:

- Health, Acute toxicity, 5 Oral
- Health, Skin corrosion/irritation, 1 B
- Health, Serious Eye Damage/Eye Irritation, 1

GHS Phrases:

- Warning, H303 - May be harmful if swallowed
- Danger, H314 - Causes severe skin burns and eye damage
- Danger, H318 - Causes serious eye damage

GHS Precautionary Statements:

- Do not breathe dust/fume/gas/mist/vapours/spray.
  - Wash \_ thoroughly after handling.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Immediately call a POISON CENTER or doctor/physician.
  - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.
- Continue rinsing.
- Wash contaminated clothing before reuse.

### 3

### HAZARDS IDENTIFICATION

Ingredients:

CAS #	Percentage	Chemical Name
112-34-5	<6%	Diethylene glycol monobutyl ether
1310-58-3	<2%	Potassium hydroxide
34590-94-8	<2%	Dipropylene glycol methyl ether

**OSHA Regulatory Status:**

This SDS contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

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### 4 FIRST AID MEASURES

**Inhalation:** If symptoms develop, move victim to fresh air; if symptoms persist, obtain medical attention.

**Skin Contact:** Wash with soap and water. If irritation persists consult medical personnel.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.

**Ingestion:** If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

### 5 FIRE FIGHTING MEASURES

**Flash Point:** >212°F  
**Flash Point Method:** Closed Cup

Wear self-contained breathing apparatus and other protective clothing. Use any standard agent - choose the one most appropriate for type of surrounding fire.

### 6 ACCIDENTAL RELEASE MEASURES

Keep away from drains and ground water. Keep all unnecessary personnel away. Spill area may be slippery. Pick up excess with inert absorbent material and place into separate waste container. Ventilate area and wash spill site after material pickup is complete. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

### 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid contact with eyes, skin, or clothing; Consider normal working hygiene. Handle with care and avoid spillage on the floor (slippage). Keep away from sources of ignition; wash thoroughly after handling.

**Storage Requirements:** Keep away from children. Store in cool/dry area; Keep container closed.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Normal room ventilation is satisfactory for limited use.  
**Personal Protective Equip:** HMIS PP, B | Safety glasses, Gloves

Dipropylene glycol methyl ether 34590-94-8 OSHA PEL 100 ppm/ 600 mg/m3

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear light green	<b>Odor:</b>	Lemon - Floral
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Soluble
<b>Spec Grav./Density:</b>	8.85 lb/gal		
<b>pH:</b>	12.8 - 13.2 as is; 11.4 - 11.9 RTU		

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### 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	None Known
<b>Materials to Avoid:</b>	None Known
<b>Hazardous Decomposition:</b>	Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.
<b>Hazardous Polymerization:</b>	Will not occur.

### 11 TOXICOLOGICAL INFORMATION

#### Toxicity Data:

Diethylene glycol butyl ether 112-34-5

Oral ( LD 50): 5660 mg/kg - Rat

Inhalation ( LC 50): Not listed on RTECS

Skin irritation: Moderate

Eye irritation: Severe

Sensitization: Not considered an occupational sensitizer

Potassium hydroxide 1310-58-3

Oral ( LD 50): 273 mg/kg - Rat

Inhalation ( LC): Not listed on RTECS

Skin irritation: Severe - Human

Eye irritation: Severe - Rabbit

Sensitization: Not considered an occupational sensitizer

Diethylene glycol butyl ether 112-34-5

Oral ( LD 50): 5660 mg/kg - Rat

Inhalation ( LC 50): Not listed on RTECS

Skin irritation: Moderate

Eye irritation: Severe

Sensitization: Not considered an occupational sensitizer

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### 12 ECOLOGICAL INFORMATION

On the basis of available information, this material is not expected to produce any significant environmental effects when recommended use instructions are followed.

### 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

### 14 TRANSPORT INFORMATION

Ship in accordance with 49 CFR parts 100-185.

Gallon 4X1 Case: Limited Quantity

55 Gallon Drum: UN1760 corrosive liquids, n.o.s., (Potassium hydroxide), 8, II

### 15 REGULATORY INFORMATION

COMPONENT / (CAS/PERCENT) / CODES

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\*Diethylene glycol monobutyl ether (112345 <6%) TSCA, WHMIS

\*Potassium hydroxide (1310583 <2%) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR, WHMIS

\*Dipropylene glycol methyl ether (34590948 <2%) MASS, OSHAWAC, PA, TSCA, TXAIR, WHMIS

REGULATORY KEY DESCRIPTIONS

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All components are listed on TSCA

CERCLA = Superfund clean up substance

CSWHS = Clean water Act Hazardous substances

MASS = MA Massachusetts Hazardous Substances List

OSHA = OSHA workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level

WHMIS = Workplace Haz Mat Info Sys Canada

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**16****OTHER INFORMATION**

This document is prepared in accordance with 29 CFR 1910.1200. The purpose of this section is to ensure that the hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees.

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the manufacturer's control; therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine if the product is suitable for their particular purposes. The users assume all risks of product use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

Prepared by: EHS Manager

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