

**MATERIAL SAFETY DATA SHEET**

DYNAMIC RESEARCH CO., INC.  
 4800 SW MEADOWS Ste 300  
 LAKE OSWEGO, OR 97035

Rating Scale:

0 = Insignificant  
 1 = Slight  
 2 = Moderate  
 3 = High  
 4 = Extreme

HMIS

1 HEALTH  
 0 FLAMMABILITY  
 0 REACTIVE  
 None OTHER

NFPA

1  
 0  
 0  
 None

**SECTION I - PRODUCT IDENTIFICATION**

PRODUCT NAME OR NUMBER (As it appears on label)

**Dynamic POWERHOUSE Water Stain Breaker**

EMERGENCY INFORMATION: (24-HOUR MEDICAL EMERGENCY) 1-503-494-8616  
 (GENERAL INFORMATION) 1-503-699-1335

CHEMICAL OR COMMON NAME: Hard Water Stain Remover

DATE: 06-01-2008 SUPERCEDES: 03-01-2007

**SECTION II - INGREDIENT INFORMATION:**

<u>CAS #</u>	<u>WT. %</u>	<u>CHEMICAL NAMES</u>	<u>EXPOSURE LIMIT</u>
Proprietary	0-8	Alcohol ethoxylate	ND
79-14-1	0-8	Hydroxyacetic Acid	2 ppm ***
5329-14-6	0-8	Sulfamic Acid	ND * **
77-92-9	0-8	Citric acid	ND
034590-94-8	0-3	Dipropylene glycol monmethyl ether	100 ppm **

Balance is water, coloring, &amp; similar non-hazardous ingredients.

\* ACGIH TLV-TWA      \*\* OSHA PEL      \*\*\* Supplier supplied

There are no ingredients in this product that are currently reportable in either SARA Title III: Section 313, 40 CFR part 372.

**SECTION III - FIRE AND EXPLOSION INFORMATION**

FLASH POINT: None (ASTM D92)      FLAMMABLE LIMITS:      LOWER: NA      UPPER: NA

EXTINGUISHING MEDIA:  FOAM       CO2       DRY CHEMICAL       WATER FOG       OTHERSPECIAL FIRE FIGHTING PROCEDURES: Normal fire fighting procedures may be used.  
Use extinguishing media appropriate for surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No special hazards known. Heat of fire may melt containers.

**SECTION IV - HEALTH HAZARD INFORMATION****SIGNS AND SYMPTOMS:**

Direct contact with skin and eyes can cause irritation. Prolonged or repeated contact with skin and eye may cause redness or burns. Inhalation of mist or vapor may cause some individuals to cough or cause irritation of nose, throat, &amp; lungs. Harmful if swallowed; may cause corrosive damage to mouth, throat or stomach.

PRIMARY ROUTES OF ENTRY:      EYES:       SKIN:       INGESTION:       INHALATION: 

EMERGENCY FIRST AID PROCEDURES - EYE OR SKIN: Immediately flush with water for at least 15 minutes, remove contact lenses. If pain, irritation or redness persists, seek medical aid. If SWALLOWED, give conscious victim large amounts of milk or water. Seek medical aid. INHALATION: Remove to fresh air immediately. Seek medical attention if breathing difficulty persists.

**SECTION V - REACTIVITY INFORMATION**

STABILITY: STABLE X UNSTABLE     CONDITIONS TO AVOID NA

INCOMPATIBILITY (MATERIALS TO AVOID): Strong alkalis, bleach, cyanides, sulfides, or chlorine compounds of any kind. Do not mix with other chemicals or cleaners.

HAZARDOUS DECOMPOSITION PRODUCTS: None Known

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR X

**SECTION VI - HANDLING, STORAGE AND ACCIDENTAL RELEASE**

HANDLING & STORAGE INFORMATION: Keep out of reach of children. Keep and store in a cool dry place with adequate ventilation. Do not store near heat or flame (containers may melt). Keep from freezing (containers may rupture). Wash thoroughly after handling product. Empty containers may contain small amounts of undiluted product. Be certain to dispose according to all regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with diatomaceous earth or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Wear/use appropriate protective equipment. Follow all Federal, State and Local regulations.

**SECTION VII - PERSONAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: No special requirements under normal use conditions.

VENTILATION: No special requirement

PROTECTIVE GLOVES: No special requirement under normal use conditions.  
Otherwise use rubber; PVC; or other impervious material.

EYE PROTECTION: No special requirement under normal use. Use safety goggles if potential for splashing exists.

OTHER PROTECTIVE MEASURES: Use good personal hygiene practices. Launder contaminated equipment before reuse.

**SECTION VIII - PHYSICAL DATA**

BOILING POINT	212 F	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	1.02
FREEZING POINT	ND	PERCENT VOLATILE BY VOLUME	90%
SOLUBILITY IN WATER	Complete	VAPOR PRESSURE (mm Hg)	NA
pH (undiluted)	2.5	EVAPORATION RATE (Butyl Ac = 100)	NA
		APPEARANCE & ODOR	Blue-green liquid Mild odor

**SECTION IX - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL INFORMATION: No special method. Observe all applicable Federal, State and Local regulations, rules and /or ordinances regarding disposal of non-hazardous materials.

**SECTION X - DOT AND TRANSPORTATION INFORMATION**

DOT CLASS: Non-hazardous Class 55 DOT#: NA

SHIPPING NAME: Cleaning, Scouring or Washing Compounds, NOI Liquid

SPECIAL INFORMATION: Not regulated as a hazardous material by DOT or IMO.

**SECTION XI - REGULATORY AND ECOLOGICAL INFORMATION**

PHOSPHATE CONTENT: None

ARE ALL THE ORGANIC INGREDIENTS IN THIS PRODUCT BIODEGRADABLE?: Yes

ARE ALL THE INGREDIENTS IN THIS PRODUCT LISTED ON THE TSCA LISTS? Yes

INGREDIENTS LISTED AS CARCINOGENS ON NTP, IARC, OR OSHA LISTS? No

**ABBREVIATIONS: NA = Not Applicable NSR = No Special Requirement ND = Not Determined**

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