

MATERIAL SAFETY DATA SHEET

Rating Scale:

HMISNFPA

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

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

2 HEALTH
0 FLAMMABILITY
0 REACTIVE
None OTHER

2
0
0
None

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME OR NUMBER (As it appears on label)

Dynamic Powerhouse **SHOOTER** Water Stain Breaker

EMERGENCY INFORMATION:

(24-HOUR EMERGENCY)

1-800-255-3924 (US / Canada)
1-813-248-0585 (International)

(GENERAL INFORMATION)**1-503-699-1335**

CHEMICAL OR COMMON NAME:

Hard Water Stain Remover

DATE ISSUED: 04-15-2013

SUPERSEDES: : 12-11-2011

SECTION 2 - INGREDIENT INFORMATION**CHEMICAL NAMES****CAS #****WEIGHT %**

Hydroxyacetic acid	79-14-1	1 - 8
Sulfamic Acid	5329-14-6	1 - 8
Citric acid	79-92-9	1 - 8
Dipropylene glycol monomethyl ether	034590-94-8	1 - 3
Ammonium bifluoride	1341-49-7	1 - 7
Surfactants	Proprietary	1 - 5

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

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

SECTION 3 - HEALTH HAZARD INFORMATIONPRIMARY ROUTES OF ENTRY: EYES: X SKIN: X INGESTION: INHALATION:

SIGNS AND SYMPTOMS:

EYES: Direct contact with eyes can cause irritation. Prolonged or repeated contact with eye may cause irritation, burns, or redness**SKIN:** Direct contact with skin can cause irritation, or redness**INHALATION:** Inhalation of mist or vapor may cause cause irritation of nose, throat, & lungs.**INGESTION:** Harmful if swallowed; May cause gastrointestinal irritation and diarrhea.

SECTION 4 – FIRST AID MEASURES**EYES:** Immediately flush with water for at least 15 minutes, remove contact lenses. Seek medical aid.**SKIN:** Immediately flush with water for at least 15 minutes, If pain, irritation or redness persists, seek medical aid.**INGESTION:** If swallowed, do not induce vomiting. Immediately drink 2 glasses of milk or water. Do not give unconscious victim large amounts of milk or water. Seek medical aid.**INHALATION:** Remove to fresh air immediately. Seek medical attention if breathing difficulty persists.

SECTION 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT: None (ASTM D92)

FLAMMABLE LIMITS: LOWER: NA UPPER: NA

EXTINGUISHING MEDIA: X FOAM X CO2 X DRY CHEMICAL X 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 6 - ACCIDENTAL RELEASE MEASURES**Personal Precautions:** Put on appropriate personal protection equipment (see Section 8)**Environmental Precautions and Clean Up Methods:** Absorb with diatomaceous earth or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Follow all Federal, State and Local regulations.

SECTION 7 – HANDLING and STORAGE**HANDLING :** Do not taste or swallow. Avoid contact with skin or eyes. Wash thoroughly after handling product. FOR COMMERCIAL AND INDUSTRIAL USE**STORAGE:** Do not store near heat or flame (containers may melt). Keep from freezing (containers may rupture). Empty containers may contain small amounts of undiluted product. KEEP OUT OF REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

ENGINEERING CONTROLS: No special requirements . General room ventilation is adequate.

HANDS: Use rubber; PVC; or other impervious material.

EYES: Use safety goggles if potential for splashing exists.

RESPIRATORY PROTECTION: No special requirement under normal use conditions.

FEET: No special requirement under normal use conditions

BODY: No special requirement under normal use conditions

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

SECTION 9 - PHYSICAL DATA

BOILING POINT	212 F	SPECIFIC GRAVITY (H2O=1)	1.041
FREEZING POINT	ND	PERCENT VOLATILE BY VOLUME	85%
SOLUBILITY IN WATER	Complete	VAPOR PRESSURE (mm Hg)	NA
pH (undiluted)	4.4-5.0	EVAPORATION RATE (Butyl Ac=100)	NA
		APPEARANCE & ODOR	Blue-green liquid miint odor

SECTION 10 – STABILITY and REACTIVITYSTABILITY: STABLE X UNSTABLE CONDITIONS TO AVOID NAINCOMPATIBILITY (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: Ammoniacal vapors, Hydrogen Fluoride, Oxides of Nitrogen

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR X

SECTION 11 – TOXICOLOGICAL INFORMATION

Oral: LD50 Estimated to be greater than 2000 mg/kg (rat); Dermal: LD50 Estimated to be greater than 2000 mg/kg (rat)

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATION

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 14- 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 15 - REGULATORY INFORMATION

Reporting in this section is based upon ingredients disclosed on Section 2

This product is not subject to the reporting requirements under California Proposition 65

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

All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

FEDERAL

SARA 302/304/311/312 hazardous chemicals: Dipropylene Glycol Monomethyl Ether, Ammonium Bifluoride
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Dipropylene Glycol Monomethyl Ether, Ammonium Bifluoride
SARA 313 toxic chemical notification and release reporting: Ammonium Bifluoride
CERCLA: Hazardous substances.: Dipropylene Glycol Monomethyl Ether, Ammonium Bifluoride

STATE

New Jersey RTK: Dipropylene Glycol Monomethyl Ether, Ammonium Bifluoride, Sulfamic acid
Pennsylvania RTK: Dipropylene Glycol Monomethyl Ether, Ammonium Bifluoride
California Hazard Substance List: Ammonium Bifluoride
Massachusetts RTK: Dipropylene Glycol Monomethyl Ether, Ammonium Bifluoride
Rhode Island RTK: Dipropylene Glycol Monomethyl Ether,
Minnesota RTK: Dipropylene Glycol Monomethyl Ether,

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

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