#### MATERIAL SAFETY DATA SHEET Rating Scale: **HMIS NFPA** DYNAMIC RESEARCH CO., INC. 0=Insignificant 1 HEALTH 1 4800 SW MEADOWS Ste 300 1=Slight 0 FLAMMABILITY 0 LAKE OSWEGO, OR 97035 2=Moderate 0 REACTIVE 0 3=High None OTHER None 4=Extreme

# **SECTION 1 - PRODUCT IDENTIFICATION**

PRODUCT NAME OR NUMBER (As it appears on label)

### Original SAF-T-STEP

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 ISSUED: 12-11-2011 SUPERSEDES: : 02-01-2010

### **SECTION 2 - INGREDIENT INFORMATION**

CAS#	<u>WT. %</u>	CHEMICAL NAMES	EXPOSURE_LIMIT
Proprietary	0-10	Surfactants	ND
5329-14-6	0 - 8	Sulfamic Acid	ND * **
77-92-9	0 - 5	Citric acid	ND
034590-94-8	0 - 3	Dipropylene glycol monomethyl ether	100ppm ACGIH (TWA) 150ppm ACGIH (STEL)

Balance is water, coloring, fragrance, & 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 3 - HEALTH HAZARD INFORMATION

PRIMARY 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 vomitting. 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.

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### **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 \_ OTHER

SPECIAL 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**

Presonnal 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: No special requirement under normal use conditions.

EYES: No special requirement under normal use conditions...

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 (H20=1) 1.03 FREEZING POINT ND PERCENT VOLATILE BY VOLUME 87% SOLUBILITY IN WATER Complete VAPOR PRESSURE (mm Hg) NA pH (undiluted) 3.5 - 3.7 EVAPORATION RATE (Butyl Ac=100) NA

APPEARANCE & ODOR Blue-green liquid, mild odor

# **SECTION 10 – STABILITY and REACTIVITY**

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

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### SECTION 11 - TOXICOLOGOCAL INFORMATION

Oral: LD50 Estimated to be greater than 4000 mg/kg (rat); Dermal: LD50 Estimated to be greater than 4000 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 material.

### **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 AND ECOLOGICAL 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:

ARE ALL THE ORGANIC INGREDIENTS IN THIS PRODUCT BIODEGRADABLE?:

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

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 Gycol Monomethyl Ether,

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Dipropylene Gycol Monomethyl Ether,

SARA 313 toxic chemical notification and release reporting:

CERCLA: Hazardous substances.: Dipropylene Gycol Monomethyl Ether

#### **STATE**

New Jersey RTK: Dipropylene Gycol Monomethyl Ether, Sulfamic acid

Pennsylvania RTK: Dipropylene Gycol Monomethyl Ether, Massachusets RTK: Dipropylene Gycol Monomethyl Ether, Rhode Island RTK: Dipropylene Gycol Monomethyl Ether, Minnesota RTK: Dipropylene Gycol Monomethyl Ether

CEPA - Domestic Substances List (DSL)

All substances in this product are listed on the Domestic Substances List of Canada (DSL) or are not required to be on the list.

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

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