

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/09/2017 Revision date: 03/16/2017 Supersedes: 03/15/2017

Version: 2.1

## **SECTION 1: Identification**

### 1.1. Identification

Product form : Mixture

Trade name : Patriot Chemical® Hard Water Rinse Aid

Product code : 0616

### 1.2. Recommended use and restrictions on use

Recommended use : Rinse aid (includes drying aids)

### 1.3. Supplier

Synthetic Labs 24 Victory Lane

Dracut, MA 01826 - United States T 800.255.4050 - F 978.957.5122

www.syntecpro.com

#### 1.4. Emergency telephone number

Emergency number : Infotrac 24 Hour Medical Emergency Number: 1-800-535-5053

### SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation Category 1A

Serious eye damage/eye irritation Category 1

Causes severe skin burns and eye damage

Causes serious eye damage

### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger

Hazard statements (GHS US) : Causes severe skin burns and eye damage

Causes serious eye damage

Precautionary statements (GHS US) : Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands, forearms and face 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): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Immediately call a poison center or doctor.

Specific treatment (see supplemental first aid instruction on this label).

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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### **SECTION 3: Composition/Information on ingredients**

### **Substances**

Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%	GHS US classification
Glycolic Acid	(CAS-No.) 79-14-1	20 – 30	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:vapour), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318
Ethylene Glycol Monobutyl Ether	(CAS-No.) 111-76-2	1-5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First-aid measures**

#### **Description of first aid measures**

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to First-aid measures after eye contact

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

: Call a poison center/doctor/physician if you feel unwell. First-aid measures after ingestion

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Mild eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### **Environmental precautions**

Avoid release to the environment.

### Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

- : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal  $\ensuremath{\mathsf{E}}$
- protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
  - Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Patriot Chemical® Hard Water Rinse Aid	
No additional information available	
Glycolic Acid (79-14-1)	
No additional information available	
Ethylene Glycol Monobutyl Ether (111-76-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	20 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: LiquidColor: Blue

Odor : characteristic
Odor threshold : No data available

pH : 2 pH solution : 2-3

Melting point : Not applicable

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Freezing point : No data available Boiling point : No data available Flash point No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available : 1.05 g/m<sup>3</sup> Specific gravity / density Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic **Explosion limits** No data available : No data available Explosive properties Oxidizing properties : No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION** 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Glycolic Acid (79-14-1)	
LD50 oral rat	≈ 1950 mg/kg
Ethylene Glycol Monobutyl Ether (111-76-2)	
LD50 oral rat	1746 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (ppm)	450 ppm (Equivalent or similar to OECD 403, 4 h, Rat, Female, Experimental value, Inhalation (vapours))
Skin corrosion/irritation	Causes severe skin burns.
	pH: 2

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Serious eye damage/irritation : Causes serious eye damage.

pH: 2

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated

exposure

: Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Mild eye irritation.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

Glycolic Acid (79-14-1)		
LC50 fish 1	> 5000 mg/l (LC50; 96 h)	
EC50 Daphnia 1	141 mg/l (EC50; 48 h)	
Threshold limit algae 1	44 mg/l (EC50; 72 h)	
Ethylene Glycol Monobutyl Ether (111-76-2)		
LC50 fish 1	1474 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 Daphnia 1	1550 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)	

### 12.2. Persistence and degradability

Glycolic Acid (79-14-1)	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	0.175 g O₂/g substance
ThOD	0.63 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.28
Ethylene Glycol Monobutyl Ether (111-76-2)	
Persistence and degradability	Readily biodegradable in water.

### 12.3. Bioaccumulative potential

Glycolic Acid (79-14-1)	
Partition coefficient n-octanol/water (Log Pow)	-1.11
Bioaccumulative potential	Bioaccumulation: not applicable.
Ethylene Glycol Monobutyl Ether (111-76-2)	
Ethylene Glycol Monobutyl Ether (111-76-2)	
Ethylene Glycol Monobutyl Ether (111-76-2)  Partition coefficient n-octanol/water (Log Pow)	0.81 (Test data, 20 °C)

### 12.4. Mobility in soil

Ethylene Glycol Monobutyl Ether (111-76-2	
Surface tension	65.03 mN/m (20 °C, 2 g/l)
Ecology - soil	Low potential for adsorption in soil.

### 12.5. Other adverse effects

No additional information available

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### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

### **Transportation of Dangerous Goods**

Not applicable

### Transport by sea

Not regulated

### Air transport

Not regulated

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### Glycolic Acid (79-14-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Ethylene Glycol Monobutyl Ether (111-76-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

### **CANADA**

### Glycolic Acid (79-14-1)

Listed on the Canadian DSL (Domestic Substances List)

### Ethylene Glycol Monobutyl Ether (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

### 15.3. US State regulations

Component	State or local regulations
Ethylene Glycol Monobutyl Ether(111-76-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

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Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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