# **SAFETY DATA SHEET**



Issue Date 01-Jun-2015 Revision Date 01-Jun-2017 Version 2

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name STAR GREEN

Other means of identification

Product Code K1400 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use General Purpose Cleaner
Uses advised against No information available

Details of the supplier of the safety data sheet

Harvard Chemical, LLC 3595 Zip Industrial Blvd Atlanta GA 30354

**Emergency telephone number** 

**Company Phone Number** 404-761-0657 **24 Hour Emergency Phone Number** 800-424-9300

Emergency Telephone Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

# Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

Appearance	Clear Liquid	Physical state	liquid	Odor	Sassafras
	ı		1		

**Emergency Overview** 

Hazards not otherwise classified (HNOC)
Other Information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Water	7732-18-5	<91	*
Tetra Potassium Pyrophosphate	7320-34-5	<6	*
Ethoxylated Alcohol	68439-46-3	<6	*
Dipropylene Glycol Monomethyl Ether	34590-94-8	<3	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is

having trouble breathing, give supplemental oxygen, if available. Get medical attention.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the chemical

No information available.

#### Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Pick up and transfer to properly labeled containers.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Acids.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dipropylene Glycol Monomethyl	STEL: 150 ppm	TWA: 100 ppm	IDLH: 600 ppm
Ether	TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>	TWA: 100 ppm
34590-94-8	S*	(vacated) TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>
		(vacated) TWA: 600 mg/m <sup>3</sup>	STEL: 150 ppm
		(vacated) STEL: 150 ppm	STEL: 900 mg/m <sup>3</sup>
		(vacated) STEL: 900 mg/m <sup>3</sup>	-
		(vacated) S*	
		S*	

## **Appropriate engineering controls**

Engineering Controls Showers

Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/face protection**No special technical protective measures are necessary.

**Skin and body protection**No special technical protective measures are necessary.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear Liquid Odor Sassafras

ColorOdor thresholdNo information available

Remarks • Method

<u>Property</u> <u>Values</u>

**pH** 9.5

Melting point/freezing point

Boiling point / boiling range
Flash point

Flash point

Flash point

No information available
No information available

Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information available

Vapor pressure >1

Vapor density No information available

Specific Gravity 1.02

Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** No information available **Oxidizing properties** No information available

# **Other Information**

Softening point
Molecular weight
VOC Content (%)
No information available
No information available
No information available

Density 8.5

Bulk density No information available

# 10. STABILITY AND REACTIVITY

## Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Strong Acids.

# **Incompatible materials**

Acids.

# **Hazardous Decomposition Products**

Carbon monoxide. Phosphorous Oxidizers.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

Eye contact No data available.

**Skin Contact** No data available.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Tetra Potassium Pyrophosphate 7320-34-5	-	> 4640 mg/kg ( Rabbit )	-
Ethoxylated Alcohol 68439-46-3	= 1378 mg/kg (Rat) = 1400 mg/kg (Rat)	> 2 g/kg (Rabbit)	-
Dipropylene Glycol Monomethyl Ether 34590-94-8	= 5230 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	-

# Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.

# Numerical measures of toxicity - Product Information

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Tetra Potassium Pyrophosphate	-	100: 96 h Oncorhynchus mykiss	100: 48 h water flea mg/L EC50
7320-34-5		mg/L LC50	_
Dipropylene Glycol Monomethyl	-	10000: 96 h Pimephales promelas	1919: 48 h Daphnia magna mg/L
Ether		mg/L LC50 static	LC50
34590-94-8			

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Dipropylene Glycol Monomethyl Ether	-0.064
34590-94-8	

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC KECL** Complies **PICCS** Complies **AICS** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
Dipropylene Glycol Monomethyl Ether - 34590-94-8	1.0		
SARA 311/312 Hazard Categories	·		
Acute health hazard	No		
Chronic Health Hazard	No		
Fire hazard	No		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X
7732-18-5			
Dipropylene Glycol Monomethyl	X	X	X
Ether			
34590-94-8			

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

Health hazards ∩	Flammahility ∩	Instability ∩	Physical and Chemica

NFPAHealth hazards0Flammability0Instability0Physical and Chemical Properties -HMISHealth hazards1Flammability0Physical hazards0Personal protectionX

16. OTHER INFORMATION

Revision Date 01-Jun-2017

**Revision Note** 

No information available

## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**