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Version 1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

**SDS #** BE-5403-EU  
**Product Code** 5403  
**Product Name** Buckeye Star Spray

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Recommended Use** Ready-to-use glass cleaner Waterbased

### 1.3. Details of the Supplier of the Safety Data Sheet

<u>Importer</u>	<u>REACH Only Representative</u>	<u>Supplier</u>
UK Contact David Pinder, EU General Manager 12 Paskin Close Fradley Village, NR Lichfield Staffordshire, WS13 8NZ UK	TSGE TSGE@TSGEurope.com	Buckeye International, Inc. 2700 Wagner Place Maryland Heights, MO 63043 USA

For further information, please contact

**Contact Point** David Pinder, EU General Manager: 011447788432884  
Buckeye International, Inc.: 1-314-291-1900  
**Email Address** info@buckeyeinternational.com

### 1.4. Emergency telephone number

Emergency Telephone (24 hr) (Medical) 1-651-632-8956 (International)  
1-800-303-0441 (North America)  
(Transportation) INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

**Regulation (EC) No 1272/2008**  
Not classified as dangerous according to Regulation (EC) No. 1272/2008

**Classification according to 67/548/EEC**  
*Full text of R-phrases: see section 16*

**Hazard Symbols**  
Not dangerous

**2.2. Label Elements**  
Not classified as dangerous according to Regulation (EC) No. 1272/2008

**Signal Word**

None

EUH210 - Safety data sheet available on request

**2.3. Other Hazards****General Hazards**

None known

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Chemical Name	EC No	CAS No	Weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Propylene glycol monomethyl ether	Present	107-98-2	3	R10 R67	STOT SE 3 (H336) Flam. Liq. 3 (H226) Flam. Liq. 3 (H226) STOT SE 3 (inhalation)	Not determined

**Full text of R-phrases: see section 16****Full text of H- and EUH-phrases: see section 16****SECTION 4: FIRST AID MEASURES****4.1. Description of First Aid Measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation persists.
<b>Skin Contact</b>	Wash skin with soap and water. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Drink 2-3 large glasses of water. Do not induce vomiting. Call a physician. Never give anything by mouth to an unconscious person.

**4.2. Most Important Symptoms and Effects, Both Acute and Delayed**

<b>Symptoms</b>	Direct eye contact may cause stinging, tearing and redness.
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**4.3. Indication of any Immediate Medical Attention and Special Treatment Needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing Media****Suitable Extinguishing Media**

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

**Unsuitable Extinguishing Media**

Not determined

**5.2. Special Hazards Arising from the Substance or Mixture**

Combustion products may be toxic

**Hazardous Combustion  
Products**

Carbon oxides.

**5.3. Advice for Firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal Precautions, Protective Equipment and Emergency Procedures****Personal Precautions**

Use personal protective equipment as required.

**For Emergency Responders**

Use personal protection recommended in Section 8.

**6.2. Environmental Precautions**

Collect spillage.

**6.3. Methods and Material for Containment and Cleaning Up****Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up**

Pick up with mop, wet/dry vac, or absorbent material. Rinse area with clear water and allow floor to dry before allowing traffic.

**6.4. Reference to Other Sections**

See Section 13, Disposal Considerations, for additional information.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for Safe Handling****Advice on Safe Handling**

Keep out of the reach of children.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.

**7.2. Conditions for Safe Storage, Including any Incompatibilities****Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Store at room temperature.

**7.3. Specific End Use(s)****Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

#### Exposure Limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Propylene glycol monomethyl ether 107-98-2	S* TWA 100 ppm TWA 375 mg/m <sup>3</sup> STEL 150 ppm STEL 568 mg/m <sup>3</sup>	STEL: 150 ppm STEL: 560 mg/m <sup>3</sup> TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> STEL: 100 ppm STEL: 375 mg/m <sup>3</sup>	S* STEL: 150 ppm STEL: 568 mg/m <sup>3</sup> TWA: 100 ppm TWA: 375 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 370 mg/m <sup>3</sup> Ceiling / Peak: 200 ppm Ceiling / Peak: 740 mg/m <sup>3</sup>
Component	Italy	Portugal	Netherlands	Finland	Denmark
Propylene glycol monomethyl ether 107-98-2 ( 3 )	TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 568 mg/m <sup>3</sup> Skin	STEL: 150 ppm TWA: 100 ppm	Skin STEL: 563 mg/m <sup>3</sup> TWA: 375 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 370 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 185 mg/m <sup>3</sup> Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Propylene glycol monomethyl ether 107-98-2	Skin STEL 50 ppm STEL 187 mg/m <sup>3</sup> TWA: 50 ppm TWA: 187 mg/m <sup>3</sup> Ceiling 50 ppm Ceiling 187 mg/m <sup>3</sup>	STEL: 200 ppm STEL: 720 mg/m <sup>3</sup> TWA: 100 ppm TWA: 360 mg/m <sup>3</sup>	STEL: 360 mg/m <sup>3</sup> TWA: 180 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 180 mg/m <sup>3</sup> Skin STEL: 75 ppm STEL: 225 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 568 mg/m <sup>3</sup>

### 8.2. Exposure Controls

#### Engineering Controls

Apply technical measures to comply with the occupational exposure limits.

#### Personal Protective Equipment

##### Eye/Face Protection

Risk of contact: Wear approved safety goggles.

##### Hand Protection

Rubber gloves.

##### Skin and Body Protection

Suitable protective clothing.

##### Respiratory Protection

Provide adequate ventilation.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Citrus Floral
<b>Appearance</b>	Clear light blue/green solution	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Light blue/green		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	9.5 ± 0.5 (conc and use dilution)		
<b>Melting Point/Freezing Point</b>	Not determined		
<b>Boiling Point/Boiling Range</b>	100 °C / 212 °F		
<b>Flash Point</b>	None		
<b>Evaporation Rate</b>	1.0	(Water = 1)	
<b>Flammability (Solid, Gas)</b>	n/a-liquid		
<b>Flammability Limits in Air</b>			
<b>Upper Flammability Limits</b>	Not applicable		
<b>Lower Flammability Limit</b>	Not applicable		
<b>Vapor Pressure</b>	Not determined		
<b>Vapor Density</b>	Not determined		
<b>Specific Gravity</b>	0.99		

<b>Water Solubility</b>	Infinite
<b>Solubility(ies)</b>	Not determined
<b>Partition Coefficient</b>	Not determined
<b>Autoignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined

**9.2. Other information****SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Not reactive under normal conditions

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of Hazardous Reactions****Hazardous Polymerization**

Hazardous polymerization does not occur.

**Possibility of Hazardous Reactions**

None under normal processing.

**10.4. Conditions to Avoid**

Keep out of reach of children.

**10.5. Incompatible Materials**

Chlorine bleach.

**10.6. Hazardous Decomposition Products**

Carbon oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on Toxicological Effects****Acute Toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol monomethyl ether	= 5200 mg/kg ( Rat )	= 13000 mg/kg ( Rabbit )	= 54.6 mg/L ( Rat ) 4 h > 24 mg/L ( Rat ) 1 h

**Symptoms**

Please see section 4 of this SDS for symptoms.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Propylene glycol monomethyl ether		20.8: 96 h Pimephales promelas g/L LC50 static 4600 - 10000: 96 h Leuciscus idus mg/L LC50 static	23300: 48 h Daphnia magna mg/L EC50

### 12.2. Persistence and Degradability

Not determined.

### 12.3. Bioaccumulative Potential

Chemical Name	Partition Coefficient
Propylene glycol monomethyl ether	-0.437

### 12.4. Mobility in Soil

#### **Mobility**

Not determined.

### 12.5. Results of PBT and vPvB Assessment

Not determined.

### 12.6. Other Adverse Effects

Not determined

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

#### **Waste from Residues / Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Improper disposal or reuse of this container may be dangerous and illegal.

## SECTION 14: TRANSPORT INFORMATION

### IMDG

14.1 UN/ID No	Not regulated
14.2	
14.3	
14.4	
14.5	
14.6	
14.7	

### RID

14.1 UN/ID No	Not regulated
14.2	
14.3	
14.4	
14.5	
14.6	

**ADR**

14.1 UN/ID No Not regulated  
 14.2  
 14.3  
 14.4  
 14.5  
 14.6

**ICAO (air)**

14.1 UN/ID No Not regulated  
 14.2  
 14.3  
 14.4  
 14.5  
 14.6

**IATA**

14.1 UN/ID No Not regulated  
 14.2  
 14.3  
 14.4  
 14.5  
 14.6

<b>SECTION 15: REGULATORY INFORMATION</b>
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**15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture****Occupational Illnesses (R-463-3, France)**

Chemical Name	French RG number	Title
Propylene glycol monomethyl ether 107-98-2	RG 84	

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**International Inventories**

TSCA -  
 EINECS/ELINCS -  
 DSL/NDSL -  
 PICCS -  
 ENCS -  
 IECSC -  
 AICS -  
 KECL -

**Legend**

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

**SECTION 16: OTHER INFORMATION****Safety Data Sheet Status**

The Risk Phrases/Hazard Statements listed below in Section 16 are related to the Raw Materials (ingredients) in the Product (as listed in Section 3) and NOT only the product itself. For the Risk Phrases/Hazard Statements relating to this Product see Section 2.

**Full text of R-phrases referred to under sections 2 and 3**

R10 - Flammable

R67 - Vapors may cause drowsiness and dizziness

**Full text of H-Statements referred to under sections 2 and 3**

H336 - May cause drowsiness or dizziness

H226 - Flammable liquid and vapor

**Classification Procedure**

Calculation method

**Issue Date** 27-Dec-2011

**Revision Date:** 23-Jul-2013

**Revision Note** New format.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 453/2010

**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