

# **Safety Data Sheet**

Issue Date: 27-Dec-2011 Revision Date: 20-Sep-2017 Version 2

## 1. IDENTIFICATION

Product Identifier

Product Name Buckeye Supergard

Other means of identification

**SDS #** BE-5085

Product Code 5085

Registration Number(s) EPA Reg. No 3862-178-559

UN/ID No UN2924

Recommended use of the chemical and restrictions on use

Recommended Use EPA registered disinfectant.

Details of the supplier of the safety data sheet

**Supplier Address** 

Buckeye International, Inc. 2700 Wagner Place Maryland Heights, MO 63043 USA

**Emergency Telephone Number** 

Company Phone Number 1-314-291-1900

Emergency Telephone (24 hr) Transportation - INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

Medical - (International) 1-651-632-8956 (North America) 1-800-303-0441

## 2. HAZARDS IDENTIFICATION

<u>Emergency Overview</u> This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Dark amber to purple liquid Physical state Liquid Odor Pleasant lemon fragrance

## Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Flammable Liquids	Category 3

#### Signal Word

Danger

#### **Hazard statements**

Harmful if inhaled

Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



#### <u>Precautionary Statements - Prevention</u>

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof equipment

Use only non-sparking tools

Take precautionary measures against static discharge

## **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam to extinguish

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other hazards

Toxic to aquatic life with long lasting effects

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Para-tertiary Amylphenol	80-46-6	10
Ethylene glycol	107-21-1	1-10
Ortho-benzyl-para-Chlorophenol	120-32-1	6.5
O-phenylphenol	90-43-7	6
Potassium hydroxide	1310-58-3	1-5
Isopropanol	67-63-0	5-10

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

#### 4. FIRST AID MEASURES

#### First Aid Measures

Eye Contact 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/physician.

**Skin Contact** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse. Immediately call a poison center or

doctor/physician.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a poison center or doctor/physician.

**Ingestion** Give two large glasses of water. Do NOT induce vomiting. Never give anything by mouth to

an unconscious person. Get medical attention.

## Most important symptoms and effects

Symptoms Harmful if inhaled. Causes severe skin burns and eye damage. May be harmful if

swallowed.

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

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Foam. Dry chemical. Water.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Flammable liquid and vapor.

Hazardous Combustion Products Carbon oxides.

#### **Explosion Data**

**Sensitivity to Static Discharge** Take precautionary measures against static discharge.

#### 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.

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## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required. Eliminate all ignition sources.

**Environmental precautions** 

**Environmental precautions** Prevent runoff from entering drains, sewers or streams. 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 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. Dispose of contents/container to an approved waste

disposal plant.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures

against static discharges.

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

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

up and out of reach of children. Do not cut, weld, or puncture container. Do not contaminate

water, food, or feed by storage or disposal.

**Incompatible Materials** Acids. Alkalis. Oxidizing agents. Chlorine.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol	STEL: 50 ppm vapor fraction	(vacated) Ceiling: 50 ppm	-
107-21-1	STEL: 10 mg/m <sup>3</sup> inhalable	(vacated) Ceiling: 125 mg/m <sup>3</sup>	
	particulate matter, aerosol only		
	TWA: 25 ppm vapor fraction		
Potassium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
1310-58-3			
Isopropanol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m <sup>3</sup>
		(vacated) TWA: 980 mg/m <sup>3</sup>	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m <sup>3</sup>
		(vacated) STEL: 1225 mg/m <sup>3</sup>	

#### Appropriate engineering controls

**Engineering Controls**Apply technical measures to comply with the occupational exposure limits.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Risk of contact: Wear approved safety goggles.

**Skin and Body Protection** Chemical resistant gloves. Suitable protective clothing.

**Respiratory Protection** Refer to 29 CFR 1910.134 for respiratory protection requirements.

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

with soap and water after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

Appearance Dark amber to purple liquid Odor Pleasant lemon fragrance

Color Varies between dark amber and purple Odor Threshold Not determined

upon aging

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 12.5-14 (Conc.) 1:237 Dilution: 9.5-

10.5

Melting Point/Freezing PointNot determinedBoiling Point/Boiling Range100 °C / 212 °F

 Flash Point
 38.8 °C / 102 °F
 Tag Closed Cup

 Evaporation Rate
 0.9
 (Water = 1)

Liquid- Not Applicable

Flammability (Solid, Gas)

Flammability Limits in Air

Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density

Not determined
Not determined
Not determined
Not determined

Relative Density 1.07
Water Solubility Infinite

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dvnamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

## **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible Materials**

Acids. Alkalis. Oxidizing agents. Chlorine.

## **Hazardous Decomposition Products**

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

Inhalation Harmful if inhaled.

Ingestion May be harmful if swallowed.

## **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Para-tertiary Amylphenol 80-46-6	= 1830 mg/kg (Rat)	= 2 g/kg (Rabbit)	-
Ethylene glycol 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)= 9530 μL/kg (Rabbit)	-
Ortho-benzyl-para-Chlorophenol 120-32-1	= 1700 mg/kg (Rat)	-	-
O-phenylphenol 90-43-7	= 2 g/kg (Rat)	> 2000 mg/kg (Rat)	> 0.949 mg/L (Rat)1 h
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	-	-
Isopropanol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m <sup>3</sup> (Rat) 4 h

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

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

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

> However, the product as a whole has not been tested. Isopropyl Alcohol (IPA) is an IARC Monograph Group 3 chemical. IPA is a Group 1 when manufactured by the strong-acid

process.

Chemical Name	ACGIH	IARC	NTP	OSHA
O-phenylphenol 90-43-7		Group 3		
Isopropanol 67-63-0		Group 3		X

## Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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## **Numerical measures of toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

## **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Para-tertiary Amylphenol		1.6: 96 h Cyprinus carpio mg/L	
80-46-6			
		promelas mg/L LC50 flow-through	
Ethylene glycol	6500 - 13000: 96 h	40000 - 60000: 96 h Pimephales	46300: 48 h Daphnia magna mg/L
107-21-1	Pseudokirchneriella subcapitata	promelas mg/L LC50 static 27540:	EC50
	mg/L EC50	96 h Lepomis macrochirus mg/L	
		LC50 static 41000: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		40761: 96 h Oncorhynchus mykiss	
		mg/L LC50 static 16000: 96 h	
		Poecilia reticulata mg/L LC50 static	
		14 - 18: 96 h Oncorhynchus mykiss	
		mL/L LC50 static	
O-phenylphenol	0.85: 72 h Desmodesmus	2.74: 96 h Lepomis macrochirus	1 - 2.5: 48 h Daphnia magna mg/L
90-43-7	subspicatus mg/L EC50	mg/L LC50 5.8: 96 h Poecilia	EC50 Static
		reticulata mg/L LC50 static 2.75: 96	
		h Oncorhynchus mykiss mg/L LC50	
		3.4: 96 h Pimephales promelas	
		mg/L LC50 flow-through	
Potassium hydroxide		80: 96 h Gambusia affinis mg/L	
1310-58-3		LC50 static	
Isopropanol	1000: 96 h Desmodesmus	9640: 96 h Pimephales promelas	13299: 48 h Daphnia magna mg/L
67-63-0	subspicatus mg/L EC50 1000: 72 h	mg/L LC50 flow-through 1400000:	EC50
	Desmodesmus subspicatus mg/L	96 h Lepomis macrochirus μg/L	
	EC50	LC50 11130: 96 h Pimephales	
		promelas mg/L LC50 static	

## Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

## **Mobility**

Chemical Name	Partition Coefficient
Ethylene glycol 107-21-1	-1.93
O-phenylphenol 90-43-7	3.18
Potassium hydroxide	0.65
1310-58-3	0.83
Isopropanol 67-63-0	0.05

## Other Adverse Effects

Not determined

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

regulations.

#### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Potassium hydroxide	Toxic
1310-58-3	Corrosive
Isopropanol	Toxic
67-63-0	Ignitable

## 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN2924

Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Potassium hydroxide)

Hazard Class 3
Subsidiary Hazard Class 8
Packing Group III

<u>IATA</u>

UN/ID No UN2924

Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Potassium hydroxide)

Hazard Class 3
Subsidiary Hazard Class 8
Packing Group III

**IMDG** 

UN/ID No UN2924

Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Potassium hydroxide)

Hazard Class 3
Subsidiary Hazard Class 8
Packing Group III

## 15. REGULATORY INFORMATION

## International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E	ENCS	IECSC	KECL	PICCS	AICS
			LINCS					
Para-tertiary Amylphenol	Х	X	X	Present	Х	Present	Х	Χ
Ethylene glycol	Х	Х	Х	Present	Χ	Present	Χ	Х
Ortho-benzyl-para- Chlorophenol	Х	Х	Х	Present	Х	Present	Х	Х
O-phenylphenol	Х	Х	Х	Present	Χ	Present	Χ	Χ
Potassium hydroxide	Х	Х	Х	Present	Х	Present	Х	Х
Isopropanol	Х	Х	Х	Present	Х	Present	Х	Х

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#### Legend:

- 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

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene glycol	5000 lb		RQ 5000 lb final RQ
107-21-1			RQ 2270 kg final RQ
Potassium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	107-21-1	1-10	1.0
O-phenylphenol - 90-43-7	90-43-7	6	1.0
Isopropanol - 67-63-0	67-63-0	5-10	1.0

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

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide	1000 lb			X

## **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

The product contains the following respectation co orienticals:		
Chemical Name	California Proposition 65	
Ethylene glycol - 107-21-1	Developmental	
O-phenylphenol - 90-43-7	Carcinogen	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol 107-21-1	Χ	X	X
O-phenylphenol 90-43-7	Χ	X	X
Potassium hydroxide 1310-58-3	Χ	X	X
Isopropanol 67-63-0	X	X	X

## EPA Pesticide Registration Number EPA Reg. No 3862-178-559

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label**

Signal Word: Danger

Causes irreversible eye damage and skin burns. Do not get in eyes, skin or on clothing. Wear protective eye wear, protective clothing, and rubber gloves. Harmful if swallowed. Avoid breathing (dust, vapor or spray mist). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Danger	Danger
Acute toxicity – oral	Harmful if swallowed	N/A
Acute toxicity – inhalation	N/A	Harmful if inhaled
Skin corrosion/irritation	Causes skin burns	Causes severe skin burns
Serious eye damage/irritation	Causes irreversible eye damage	Causes serious eye damage
Skin sensitization	N/A	May cause an allergic skin reaction
Specific target organ toxicity (repeated exposure)		May cause damage to organs through prolonged or repeated
(repeated exposure)	N/A	exposure

## **16. OTHER INFORMATION**

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards320Not determinedHMISHealth HazardsFlammabilityPhysical hazardsPersonal ProtectionNot determinedNot determinedNot determinedNot determined

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#### **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**