

Safety Data Sheet

Issue Date: 18-Aug-2014 Revision Date: 18-Sep-2017 Version 2

1. IDENTIFICATION

Product Identifier

Product Name Buckeye ECO Sanitizer

Other means of identification

SDS # BE-6062

Product Code 6062

Registration Number(s) EPA Reg. No 6836-266-559

UN/ID No UN1760

Recommended use of the chemical and restrictions on use
Recommended Use EPA registered sanitizer.

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 Clear liquid Physical state Liquid Odor Mild scent No fragrance added

Classification

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1

Signal Word Danger

Hazard statements

Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Di-n-alkyl Dimethyl Ammonium Chloride	68424-95-3	4-8
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	3-5
Ethyl Alcohol	64-17-5	0.5-3

^{**}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

General Advice Call a poison center or doctor immediately for treatment advice.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention immediately.

Skin Contact Take off contaminated clothing. Wash off immediately with plenty of water for at least 15

minutes. If redness or irritation occurs and persists, seek medical attention.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Seek medical attention for further treatment.

Ingestion Have person sip a glass of water if able to swallow. Do not induce vomiting without medical

advice. Never give anything by mouth to an unconscious person. Get medical attention to

assess further treatment.

Most important symptoms and effects

Symptoms May cause eye burns and permanent eye damage. Nausea. Headache. Direct contact with

skin can cause irritation or redness.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. If the product is ingested, probable mucosal damage may

contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Water spray (fog). Dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustion products may be toxic. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products Carbon oxides. Nitrogen oxides (NOx).

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 PrecautionsUse personal protective equipment as required.

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 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.

7. HANDLING AND STORAGE

Precautions for safe handling

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

protective gloves/protective clothing and eye/face protection.

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. Protect from direct sunlight. Protect

from extreme temperatures. Keep cool. Store locked up.

Packaging Materials Rinse container before discarding.

Incompatible Materials

Chlorine bleach. Anionic detergents. Strong oxidizing agents. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	_

Appropriate engineering controls

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

Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Refer to 29 CFR 1910.133 for eye and face protection regulations. Wear safety glasses or **Eye/Face Protection**

goggles to protect against exposure.

Skin and Body Protection Refer to 29 CFR 1910.138 for appropriate skin and body protection. Wear rubber gloves or

other impervious gloves.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements. No protective equipment

is needed under normal use conditions.

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

thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Odor Clear liquid Mild scent No fragrance

added

Color Clear **Odor Threshold** Not determined

Remarks • Method Property Values

 7.0 ± 0.5 (conc)

 7.0 ± 0.5 (1:512 dilution)

Melting Point/Freezing Point Not determined

Boiling Point/Boiling Range 100 °C / 212 > 65 °C / > 149 °F **Flash Point**

Pensky-Martens Closed Cup (PMCC) Product does

not support combustion.

(Water = 1)

Evaporation Rate 1.0 Flammability (Solid, Gas) n/a-liquid

Flammability Limits in Air

Upper Flammability Limits Not applicable **Lower Flammability Limit** Not applicable **Vapor Pressure** Not determined **Vapor Density** Not determined

Relative Density 0.99 **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 **Dynamic 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

See Sec. 7 Handling & Storage.

Incompatible Materials

Chlorine bleach. Anionic detergents. Strong oxidizing agents. Strong reducing agents.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Alkyl dimethyl benzyl ammonium	= 426 mg/kg (Rat)	=	-
chloride (C12-16)			
68424-85-1			
Ethyl Alcohol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
64-17-5			

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 Ethanol has been shown to be carcinogenic in long-term studies only when consumed as

an alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol	A3	Group 1	Known	X
64-17-5		·		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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
Ethyl Alcohol		12.0 - 16.0: 96 h Oncorhynchus	10800: 24 h Daphnia magna mg/L
64-17-5		mykiss mL/L LC50 static 13400 -	EC50 2: 48 h Daphnia magna mg/L
		15100: 96 h Pimephales promelas	EC50 Static 9268 - 14221: 48 h
		mg/L LC50 flow-through 100: 96 h	Daphnia magna mg/L LC50
		Pimephales promelas mg/L LC50	
		static	

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethyl Alcohol	-0.32
64-17-5	

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
Ethyl Alcohol	Toxic
64-17-5	Ignitable

14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

DOT

UN/ID No UN1760

Proper Shipping Name Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride)

Hazard Class Packing Group Ш

IATA

UN/ID No UN1760

Proper Shipping Name Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride)

Hazard Class Packing Group Ш

IMDG

UN/ID No UN1760

Proper Shipping Name Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride)

Hazard Class Packing Group Ш

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E	ENCS	IECSC	KECL	PICCS	AICS
			LINCS					
Di-n-alkyl Dimethyl Ammonium Chloride	Х	X	Х	Present	X	Present	X	Х
Alkyl dimethyl benzyl ammonium chloride (C12-16)	Х	X	Х	Present	X	Present	X	Х
Ethyl Alcohol	Χ	X	Х	Present	Χ	Present	Χ	Χ

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

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).

SARA 313

Not determined

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)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Ethyl Alcohol - 64-17-5	Carcinogen
	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol	X	X	X
64-17-5			

EPA Pesticide Registration Number EPA Reg. No. 6836-266-559

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

Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Harmful if swallowed or absorbed through the skin. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. 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 – dermal	Harmful if absorbed through the skin	N/A
Skin corrosion/irritation	Causes skin burns	Causes severe skin burns
Serious eye damage/irritation	Causes irreversible eye damage	Causes serious eye damage

16. OTHER INFORMATION

Special Hazards NFPA **Health Hazards Flammability** Instability Not determined

HMIS Health Hazards Flammability Physical hazards Personal Protection Not determined Not determined Not determined Not determined

Revision Date: 18-Sep-2017

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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