

Safety Data Sheet

Issue Date: 27-Dec-2011 Revision Date: 03-Dec-2018 Version 4

1. IDENTIFICATION

Product identifier

Product Name Buckeye Eco Neutral Disinfectant

Other means of identification

SDS # BE-6023

Product Code 6023

Registration Number(s) EPA Reg. No. 47371-129-559

UN/ID No UN1760

Recommended use of the chemical and restrictions on use

Recommended Use EPA Registered Germicidal Cleaner.

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) 1-615-632-8956 (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 green liquid Physical state Liquid Odor Lemon fragrance

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Signal Word

Danger

Hazard statements

Harmful if swallowed

Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dusts or mists

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor

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

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER or doctor

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

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

Other hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Didecyldimethylammonium chloride	7173-51-5	10-20
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	<10
Ethyl Alcohol	64-17-5	<10
Sodium hydroxide	1310-73-2	<5
Alkyloxypolyethyleneoxyethanol	84133-50-6	<5
EDTA	60-00-4	<5

^{**}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

Description of 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. Seek

immediate medical attention/advice.

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

clothing. Wash contaminated clothing before reuse.

Inhalation Remove to fresh air. If not breathing, give artificial respiration.

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.

Most important symptoms and effects, both acute and delayed

Symptoms Contact may cause irritation and redness. Direct eye contact may cause stinging, tearing

and redness. May cause redness, pain, and severe skin burns. May cause irritation to the mucous membranes and upper respiratory tract. Ingestion may cause nausea and

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headache.

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. Measures against circulatory shock, respiratory

depression, and convulsions may be needed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Dry powder. Foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Toxic fumes may be given off when material is exposed to fire.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride.

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 precautionsCollect spillage. 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 Keep out of the reach of children. Use personal protection recommended in Section 8. Do

not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

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

temperature. Keep container closed when not in use. Do not contaminate water, food, or

feed by storage or disposal.

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	_
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³
1310-73-2		(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

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 Splash goggles or safety glasses.

Skin and Body Protection Rubber gloves. Normal work clothing (long sleeved shirts and long pants) is recommended.

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 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 Lemon fragrance Clear green liquid Odor Color **Odor Threshold** Not determined Green

Remarks • Method Property Values

 7.6 ± 0.2 (conc)

 7.0 ± 0.2 (1:256 dilution)

Melting point / freezing point Not determined

100 °C / 212 °F Boiling point / boiling range

93.3 °C / ~ 200 °F Flash point Tag Closed Cup **Evaporation Rate** (n-BuAc = 1)1.0

 Property
 Values
 Remarks
 • Method

 Flammability (Solid, Gas)
 n/a-liquid

Flammability Limit in Air

Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

Vapor Pressure Not determined Vapor Density Not determined

Relative Density 1.00

Water Solubility Mostly Soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition 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

Keep out of reach of children.

Incompatible materials

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

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases or 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 Avoid breathing vapors or mists.

Ingestion Harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Didecyldimethylammonium chloride 7173-51-5	= 84 mg/kg (Rat)	-	-
Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1	= 426 mg/kg (Rat)	-	-
Ethyl Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Sodium hydroxide 1310-73-2	140 - 340 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
Alkyloxypolyethyleneoxyethanol 84133-50-6	= 2100 mg/kg (Rat)	-	-
EDTA 60-00-4	> 2000 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

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

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 1,754.50 mg/kg **Dermal LD50** 39,646.80 mg/kg ATEmix (inhalation-dust/mist) 1,893.40 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethyl Alcohol		100: 96 h Pimephales promelas	10800: 24 h Daphnia magna mg/L
64-17-5		mg/L LC50 static 13400 - 15100: 96	
		h Pimephales promelas mg/L LC50	EC50 Static 9268 - 14221: 48 h
		flow-through 12.0 - 16.0: 96 h	Daphnia magna mg/L LC50
		Oncorhynchus mykiss mL/L LC50	
		static	
Sodium hydroxide		45.4: 96 h Oncorhynchus mykiss	
1310-73-2		mg/L LC50 static	
Alkyloxypolyethyleneoxyethanol		3.2: 96 h Pimephales promelas	3.2: 48 h water flea mg/L EC50
84133-50-6		mg/L LC50	

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EDTA
60-00-4

1.01: 72 h Desmodesmus
subspicatus mg/L EC50

34 - 62: 96 h Lepomis macrochirus
mg/L LC50 static 44.2 - 76.5: 96 h
Pimephales promelas mg/L LC50
static

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Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Chemical name	Partition coefficient
Ethyl Alcohol 64-17-5	-0.32

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
Sodium hydroxide	Toxic
1310-73-2	Corrosive

14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

<u>DOT</u>

UN/ID No UN1760

Proper Shipping Name Corrosive liquids, n.o.s. (Alkyldimethylbenzyl ammonium chloride)

Hazard class 8
Packing Group ||

IATA

UN number UN1760

Proper Shipping Name Corrosive liquids, n.o.s. (Alkyldimethylbenzyl ammonium chloride)

Transport hazard class(es) 8
Packing Group | |

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IMDG

UN number UN1760

Proper Shipping Name Corrosive liquids, n.o.s. (Alkyldimethylbenzyl ammonium chloride)

Transport hazard class(es) 8
Packing Group ||

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Didecyldimethylammonium chloride	Х	Х	Х	Х	Х	Х	Х	Х
Alkyl dimethyl benzyl ammonium chloride (C12-16)	Х	Х	Х	Х	Х	Х	Х	Х
Ethyl Alcohol	Х	Х	Х	Х	Х	Χ	Х	Х
Sodium hydroxide	Х	Х	Х	Х	Х	Х	Х	Х
Alkyloxypolyethyleneoxyetha nol	Х	Х			Х	Х	Х	Х
EDTA	Х	Х	Х	Х	Х	Χ	Х	Х

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ
EDTA	5000 lb		RQ 5000 lb final RQ
60-00-4			RQ 2270 kg final RQ

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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

CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			Χ
EDTA	5000 lb			Х

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			
Sodium hydroxide	X	X	X
1310-73-2			
EDTA	X	X	X
60-00-4			

EPA Pesticide Registration Number EPA Reg. No. 47371-129-559

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. Harmful if inhaled, swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber or chemical resistant). Avoid breathing 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 contaminated clothing and wash clothing before reuse.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Danger	Danger
Acute Toxicity - Oral	Harmful if swallowed	Harmful if swallowed
Acute Toxicity – Dermal	Harmful if absorbed through the skin	N/A
Acute Toxicity – Inhalation	Harmful if inhaled	N/A
Skin corrosion/irritation	Causes skin burns	Causes severe skin burns
Serious eye damage/eye irritation	Causes irreversible eye damage	Causes serious eye damage

16. OTHER INFORMATION

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

HMIS **Health Hazards Flammability Physical hazards Personal Protection**

Not determined Not determined Not determined Not determined

Issue Date: 27-Dec-2011 **Revision Date:** 03-Dec-2018 **Revision Note:** New formula

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