



# Safety Data Sheet

Issue Date: 14-Jan-2013

Revision Date: 02-Nov-2017

Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Buckeye Eco One-Step Disinfectant-Deodorizer-Cleaner

### Other means of identification

**SDS #** BE-6022-CA

**Product Code** 6022  
**Synonyms** None

**UN/ID No** UN1903

### Recommended use of the chemical and restrictions on use

**Recommended Use** Cleaner/Disinfectant, Water Based

**Uses Advised Against** No information available

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

#### United States Supplier Address

Buckeye International, Inc.  
2700 Wagner Place  
Maryland Heights, MO 63043 USA  
1-314-291-1900

#### 24 hr Emergency Telephone Numbers

TRANSPORTATION - INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

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

## 2. HAZARDS IDENTIFICATION

**Appearance** Orange/red solution

**Physical state** Liquid

**Odour** Peppermint

### Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Flammable Liquids	Category 3

### Label Elements

#### Signal word

Danger

**Hazard statements**

Causes severe skin burns and eye damage  
Flammable liquid and vapour



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not breathe dust/fume/gas/mist/vapours/spray  
Wear protective gloves/protective clothing/eye protection/face protection  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Keep container tightly closed  
Ground and bond container and receiving equipment  
Use explosion-proof electrical/ ventilating / lighting / equipment  
Use non-sparking tools  
Take precautionary measures against static discharge

**Precautionary Statements - Response**

Immediately call a POISON CENTRE 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 CENTRE or doctor  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTRE or doctor  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
Rinse mouth  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**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 Information**

Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

Chemical Name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Di-n-alkyl Dimethyl Ammonium Chloride	68424-95-3	10.85	-	-
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	10.85	-	-
Alkyloxypolyethyleneoxyethanol	84133-50-6	7	-	-
Ethyl Alcohol	64-17-5	5	-	-
Tetrasodium EDTA	64-02-8	4	-	-

### 4. FIRST AID MEASURES

**First Aid Measures**

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor/physician.
<b>Skin contact</b>	Wash skin with soap and water. Take off contaminated clothing and wash it before reuse. Immediately call a poison centre or doctor/physician.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Immediately call a poison centre or doctor/physician.
<b>Ingestion</b>	If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). Do NOT induce vomiting. If vomiting occurs, give fluids again. Never give anything by mouth to an unconscious person. Immediately call a poison centre or doctor/physician.

**Most important symptoms and effects**

<b>Symptoms</b>	Causes severe skin burns and eye damage. Inhalation of vapor or mist may be irritating. Ingestion can produce headache, nausea, and immediate burning pain in the mouth, throat, and abdomen.
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**Indication of any immediate medical attention and special treatment needed**

<b>Note to doctors</b>	Treat symptomatically. If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage.
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### 5. FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry powder. Water. Foam.
<b>Unsuitable extinguishing media</b>	Not determined.
<b>Specific hazards arising from the chemical</b>	Although this product has a flash point below 200 Deg. F, it is an aqueous solution containing an alcohol and does not sustain combustion. (ASTM D 4206). Combustion products may be toxic.
<b>Hazardous Combustion Products</b>	Carbon oxides. Nitrogen oxides (NOx).

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

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

**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protection recommended in Section 8.

**For emergency responders** Remove all sources of ignition.

**Environmental precautions**

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

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

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapours/spray. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. 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. Store below 140°F. Store locked up.

**Packaging materials** Rinse container before discarding.  
**Incompatible materials** Chlorine bleach Anionic detergents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	Canada - Alberta - Occupational Exposure Limits - Ceilings	Canada - British Columbia - Occupational Exposure Limits - Ceilings	Canada - Ontario - Occupational Exposure Limits - Ceilings	Quebec
Ethyl Alcohol 64-17-5	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	STEL: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

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

**Eye/face protection** Use safety glasses or chemical splash goggles.

**Skin and body protection** Wear rubber gloves or other impervious gloves. Wear suitable protective clothing.

**Respiratory protection** No protection is ordinarily required under normal conditions of use and with adequate ventilation.

**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

<b>Physical state</b>	Liquid
<b>Appearance</b>	Orange/red solution
<b>Colour</b>	Red-orange
<b>Odour</b>	Peppermint
<b>Odour Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	12.7 ± 0.7 (conc) 10.8 ± 0.2 (1:64 dilution)	
<b>Melting Point/Freezing Point</b>	Not determined	
<b>Boiling Point/Boiling Range</b>	100 °C / 212 °F	
<b>Flash Point</b>	52 °C / 125 °F	Pensky-Martens Closed Cup (PMCC) Product does not sustain combustion
<b>Evaporation Rate</b>	Not known	
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable	
<b>Flammability Limits in Air</b>		
<b>Upper Flammability Limits</b>	Not applicable	
<b>Lower Flammability Limit</b>	Not applicable	
<b>Vapour Pressure</b>	Not determined	
<b>Vapour Density</b>	Not determined	
<b>Relative Density</b>	1.01	(1=Water)
<b>Water Solubility</b>	Infinite	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Auto-ignition Temperature</b>	Not applicable	
<b>Decomposition Temperature</b>	Not determined	

**Kinematic Viscosity** Not determined  
**Dynamic Viscosity** Not determined  
**Explosive properties** No information available.  
**Oxidising properties** No information available.

**Other Information**

**Softening Point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** No information available  
**Density** No information available  
**Bulk Density** No information available

**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 Polymerisation** Hazardous polymerisation does not occur.  
**Conditions to Avoid** Keep separated from incompatible substances. Keep out of reach of children.  
**Incompatible Materials** Chlorine bleach. Anionic detergents.  
**Hazardous Decomposition Products** Carbon oxides. Nitrogen oxides (NOx).

**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 vapours or mists.  
**Ingestion** May be harmful if swallowed.

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

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

**Numerical measures of toxicity**

Not determined

**Unknown acute toxicity** No information available

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1	= 426 mg/kg ( Rat )	-	-
Alkyloxypolyethyleneoxyethanol 84133-50-6	= 2100 mg/kg ( Rat )	-	-

Ethyl Alcohol 64-17-5	= 7060 mg/kg ( Rat )	-	= 124.7 mg/L ( Rat ) 4 h
Tetrasodium EDTA 64-02-8	= 10 g/kg ( Rat ) = 1658 mg/kg ( Rat )	-	-

**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 64-17-5	A3	Group 1	Known	X

**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 Labour)**

X - Present

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Alkyloxypolyethyleneoxyethanol 84133-50-6	-	3.2: 96 h Pimephales promelas mg/L LC50	-	3.2: 48 h water flea mg/L EC50
Ethyl Alcohol 64-17-5	-	13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	-	610: 24 h Daphnia magna mg/L EC50

**Persistence/Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** .

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

**Other Adverse Effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

#### DOT

UN/ID No	UN1903
Proper Shipping Name	Disinfectants, liquid, corrosive, n.o.s. (Dialkyldimethylammonium chloride, Ethanol)
Hazard Class	8
Packing Group	II

#### TDG

UN/ID No	UN2920
Proper Shipping Name	Disinfectants, liquid, corrosive, n.o.s. (Dialkyldimethylammonium chloride, Ethanol)
Hazard Class	8
Subsidiary Hazard Class	3
Packing Group	II

#### IATA

UN/ID No	UN2920
Proper Shipping Name	Corrosive liquid, flammable, n.o.s. (Dialkyldimethylammonium chloride, Ethanol)
Hazard Class	8
Subsidiary Hazard Class	3
Packing Group	II

#### IMDG

UN/ID No	UN2920
Proper Shipping Name	Corrosive liquid, flammable, n.o.s. (Dialkyldimethylammonium chloride, Ethanol)
Hazard Class	8
Subsidiary Hazard Class	3
Packing Group	II

### 15. REGULATORY INFORMATION

#### REGULATORY INFORMATION

#### International Regulations

Ozone-depleting substances (ODS)	Not applicable
Persistent Organic Pollutants	Not applicable
Export Notification requirements	Not applicable

**International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Di-n-alkyl Dimethyl Ammonium Chloride	X	X	X	Present	X	Present	X	X
Alkyl dimethyl benzyl ammonium chloride (C12-16)	X	X	X	Present	X	Present	X	X
Alkyloxypolyethylen eoxyethanol	X	X			X	Present	X	X
Ethyl Alcohol	X	X	X	Present	X	Present	X	X
Tetrasodium EDTA	X	X	X	Present	X	Present	X	X

**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

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	<b>Health Hazards</b> 3	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Special Hazards</b> Not determined
<b>HMIS</b>	<b>Health Hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Physical hazards</b> Not determined	<b>Personal Protection</b> Not determined

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

- TWA TWA (time-weighted average)
- STEL STEL (Short Term Exposure Limit)
- Ceiling Maximum limit value
- \* Skin designation
- Issue Date:** 14-Jan-2013

**Revision Date:** 02-Nov-2017

**Revision Note:** Canadian format

**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**