



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 CO₂, 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

Eye contact	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.
Skin contact	Wash skin with soap and water. Take off contaminated clothing and wash it before reuse. Immediately call a poison centre or doctor/physician.
Inhalation	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.
Ingestion	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

Symptoms	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

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

Suitable Extinguishing Media	Dry powder. Water. Foam.
Unsuitable extinguishing media	Not determined.
Specific hazards arising from the chemical	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.
Hazardous Combustion Products	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 ³	STEL: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1880 mg/m ³

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

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

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

Not determined

Unknown acute toxicity	No information available
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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**

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