



# Safety Data Sheet

Issue Date: 14-Jan-2013

Revision Date: 02-Aug-2013

Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

SDS #	BE-6022-EU
Product Code	6022, E6022
PCS Number	97857
Product Name	Buckeye Eco One-Step Disinfectant-Deodorizer-Cleaner

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use	Cleaner Disinfectant Waterbased
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### 1.3. Details of the Supplier of the Safety Data Sheet

<b>Importer</b>	<b>Manufacturer</b>	<b>Supplier</b>
UK Contact David Pinder, EU General Manager 12 Paskin Close Fradley Village, NR Lichfield Staffordshire, WS13 8NZ UK	TSGE TSGE@TSGEurope.com	Buckeye International, Inc. 2700 Wagner Place Maryland Heights, MO 63043 USA

### For further information, please contact

<b>Contact Point</b>	David Pinder, EU General Manager: 011447788432884 Buckeye International, Inc.: 1-314-291-1900
<b>Email Address</b>	info@buckeyeinternational.com

### 1.4. Emergency telephone number

Emergency Telephone (24 hr)	1-651-632-8956 (International) 1-800-303-0441 (North America) INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)
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## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 1
Chronic aquatic toxicity	Category 3
Flammable Liquids	Category 3

Classification according to 67/548/EEC

Full text of R-phrases: see section 16

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**R-code(s)**

R10

**2.2. Label Elements**

Labeling according to Regulation (EC) No. 1272/2008 [CLP].



**Signal Word**

Danger

**Hazard Statements**

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

P233 - Keep container tightly closed

P403 + P235 - Store in a well-ventilated place. Keep cool

**2.3. Other Hazards**

**General Hazards**

None known

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Didecyldimethylammonium chloride	Present	7173-51-5	10-15	Xn; R22 C; R34	Acute Tox. 4 (H302) Skin Corr. 1B (H314)	Not determined
Ethyl Alcohol	Present	64-17-5	<5	F; R11	Flam. Liq. 2 (H225)	Not determined
Tetrasodium EDTA	Present	64-02-8	<4	Xn; R22 Xi; R41	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	Not determined

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

### Section 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

<b>General Advice</b>	Call a poison center or doctor immediately for treatment advice.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. Call a physician immediately.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
<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. Call a physician or poison control center immediately.

#### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

<b>Symptoms</b>	Contact will cause irritation and redness to exposed areas. Headache. Nausea.
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#### 4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

<b>Notes to Physician</b>	Treat symptomatically. If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage.
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### Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media**  
Dry powder. Water. Foam.

**Unsuitable Extinguishing Media**  
Not determined.

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**5.2. Special Hazards Arising from the Substance or Mixture**

Combustion products may be toxic.

**Hazardous Combustion  
Products**

Carbon oxides. Nitrogen oxides (NOx).

**5.3. Advice for Firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions**

Use personal protective equipment as required. Remove all sources of ignition.

**For Emergency Responders**

Use personal protection recommended in Section 8.

**6.2. Environmental Precautions**

Collect spillage.

**6.3. 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.

**6.4. Reference to Other Sections**

See Section 13: DISPOSAL CONSIDERATIONS.

**Section 7: HANDLING AND STORAGE**

**7.1. Precautions for Safe Handling**

**Advice on Safe Handling**

Keep out of the reach of children. Avoid release to the environment. Use personal protection recommended in Section 8. Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling. Take off all contaminated clothing and wash it before reuse.

**7.2. 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.

**Packaging Materials**

Rinse container before discarding. Do not reuse container. Keep in original container.

**7.3. Specific End Use(s)**

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

#### Exposure Limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Ethyl Alcohol 64-17-5		STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1910 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m <sup>3</sup> Skin
Component	Italy	Portugal	Netherlands	Finland	Denmark
Ethyl Alcohol 64-17-5 ( <5 )		TWA: 1000 ppm	Skin STEL: 1900 mg/m <sup>3</sup> TWA: 260 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 1300 ppm STEL: 2500 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Ethyl Alcohol 64-17-5	STEL 2000 ppm STEL 3800 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup> TWA: 500 ppm TWA: 960 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 950 mg/m <sup>3</sup> STEL: 625 ppm STEL: 1187.5 mg/m <sup>3</sup>	STEL: 1000 ppm

### 8.2. Exposure Controls

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

#### Personal Protective Equipment

**Eye/Face Protection** Splash goggles or safety glasses.  
**Hand Protection** Rubber gloves.  
**Skin and Body Protection** Footwear that keeps feet dry is suggested.  
**Respiratory Protection** Avoid breathing vapor.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Odour</b>	Peppermint
<b>Appearance</b>	Orange/red solution	<b>Odour Threshold</b>	Not determined
<b>Colour</b>	Red-orange		

<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	0 °C / 32 °F	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	52 °C / 125 °F	Tag Closed Cup
Evaporation Rate	1.0	(Water = 1)
Flammability (Solid, Gas)	n/a-liquid	
Flammability Limits in Air		
Upper Flammability Limits	Not applicable	
Lower Flammability Limit	Not applicable	
Vapour Pressure	Not determined	
Vapour Density	Not determined	
Relative Density	Not determined	(1=Water)
Water Solubility	Infinite	
Solubility(ies)	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	Not determined	
Oxidising Properties	Not determined	

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Not reactive under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of Hazardous Reactions

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

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

None under normal processing.

### 10.4. Conditions to Avoid

Keep out of reach of children.

### 10.5. Incompatible Materials

Chlorine bleach. Anionic detergents.

### 10.6. Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Toxic vapors, fumes of amines.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

#### **Acute Toxicity**

**Product Information**

**Eye Contact** Causes severe eye damage.  
**Ingestion** Harmful if swallowed.  
**Unknown Acute Toxicity** 17.85% of the mixture consists of ingredient(s) of unknown toxicity.

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

Oral LD50 552  
 Units mg/kg  
 Inhalation  
 Mist 2,494.00  
 Units mg/L  
 Vapor 2,494.00  
 Units mg/L

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Didecyldimethylammonium chloride	= 84 mg/kg ( Rat )		
Alkyl dimethyl benzyl ammonium chloride (C12-16)	= 426 mg/kg ( Rat )		
Ethyl Alcohol	= 7060 mg/kg ( Rat )		= 124.7 mg/L ( Rat ) 4 h
Tetrasodium EDTA	= 10 g/kg ( Rat )		

**Skin corrosion/irritation** Not classified.  
**Serious eye damage/eye irritation** Not classified.  
**Sensitization** Not classified.  
**Germ cell mutagenicity** Not classified.  
**Carcinogenicity** None known based on information supplied.  
**Reproductive toxicity** Not classified.  
**STOT - single exposure** Not classified.  
**STOT - repeated exposure** Not classified.  
**Aspiration hazard** Not classified.  
**Symptoms** Please see section 4 of this SDS for symptoms.

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethyl Alcohol		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
Tetrasodium EDTA	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

**12.2. Persistence and Degradability**

Not determined.

**12.3. Bioaccumulative Potential**

Chemical Name	Partition Coefficient
Ethyl Alcohol	-0.32

**12.4. Mobility in Soil**

**Mobility**

Not determined.

**12.5. Results of PBT and vPvB Assessment**

Not determined.

**12.6. Other Adverse Effects**

Not determined.

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste Treatment Methods**

**Waste from Residues / Unused Products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Improper disposal or reuse of this container may be dangerous and illegal.

**Section 14: TRANSPORT INFORMATION**

**IMDG**

14.1 UN/ID No UN1170  
14.2 Proper Shipping Name Ethanol solution  
14.3 Hazard Class 3  
14.4 Packing Group III  
14.5  
14.6  
14.7

**RID**

14.1 UN/ID No UN1170  
14.2 Proper Shipping Name Ethanol solution  
14.3 Hazard Class 3  
14.4 Packing Group III  
14.5  
14.6

**ADR**

14.1 UN/ID No UN1170  
14.2 Proper Shipping Name Ethanol solution  
14.3 Hazard Class 3  
14.4 Packing Group III  
14.5  
14.6



ICAO (air)

14.1 UN/ID No UN1170  
14.2 Proper Shipping Name Ethanol solution  
14.3 Hazard Class 3  
14.4 Packing Group III  
14.5  
14.6

IATA

14.1 UN/ID No UN1170  
14.2 Proper Shipping Name Ethanol solution  
14.3 Hazard Class 3  
14.4 Packing Group III  
14.5  
14.6

**Section 15: REGULATORY INFORMATION**

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
Ethyl Alcohol 64-17-5	RG 84	

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

International Inventories

TSCA Listed  
EINECS/ELINCS -  
DSL/NDSL -  
PICCS -  
ENCS -  
IECSC -  
AICS -  
KECL -

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
AICS - Australian Inventory of Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## Section 16: OTHER INFORMATION

### Safety Data Sheet Status

The Risk Phrases/Hazard Statements listed below in Section 16 are related to the Raw Materials (ingredients) in the Product (as listed in Section 3) and NOT only the product itself. For the Risk Phrases/Hazard Statements relating to this Product see Section 2.

### Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed  
R11 - Highly flammable  
R41 - Risk of serious damage to eyes  
R10 - Flammable  
R34 - Causes burns

### Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor  
H302 - Harmful if swallowed  
H318 - Causes serious eye damage  
H314 - Causes severe skin burns and eye damage

### **Classification Procedure**

Calculation method

**Issue Date:** 14-Jan-2013

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**Revision Note:** New format.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 453/2010**

### **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**