



# Safety Data Sheet

Issue Date: 18-Aug-2014

Revision Date: 04-Nov-2015

Version 1

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

### 1.1. Product Identifier

**SDS #** BE-6062-EU  
**Product Code** 6062  
**Product Name** Buckeye ECO Sanitizer #6062

Contains Alkyl dimethyl benzyl ammonium chloride (C12-16), Didecyldimethylammonium chloride, N,N-Dioctyl-N, N-dimethylammonium Chloride

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

**Recommended Use** Disinfectant Sanitizer

### 1.3. Details of the Supplier of the Safety Data Sheet

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

### For further information, please contact

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

### 1.4. Emergency telephone number

Emergency Telephone (24 hr) (Medical) 1-651-632-8956 (International)  
 1-800-303-0441 (North America)  
 (Transportation) INFOTRAC 1-352-323-3500 (International)  
 1-800-535-5053 (North America)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture Regulation (EC) No 1272/2008

<b>Skin corrosion/irritation</b>	Category 1 Sub-category C - (H314)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Chronic aquatic toxicity</b>	Category 2 - (H411)

### 2.2. Label Elements

#### Product Identifier

Contains Alkyl dimethyl benzyl ammonium chloride (C12-16), Didecyldimethylammonium chloride, N,N-Dioctyl-N, N-dimethylammonium Chloride

**Signal Word**

Danger

**Hazard Statements**

H314 - Causes severe skin burns and eye damage

H411 - Toxic to aquatic life with long lasting effects

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P280 - Wear eye protection/ face protection

P310 - Immediately call a POISON CENTER or doctor/physician

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

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

P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P405 - Store locked up

**2.3. Other Hazards**

No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Ethyl Alcohol	Present	64-17-5	<2	Flam. Liq. 2 (H225)	Not determined
Didecyldimethylammonium chloride	Present	7173-51-5	<5	Acute Tox. 4 (H302) Skin Corr. 1B (H314)	Not determined

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

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**Section 4: FIRST AID MEASURES****4.1. 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. Get medical attention immediately.

**Skin Contact**

Take off contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

**Inhalation**

Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

**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 immediately.

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

**Symptoms** Causes severe skin burns and eye damage.

#### **4.3. 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.

### **Section 5: FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing Media**

**Suitable Extinguishing Media**

Foam. Water spray (fog). Dry chemical.

**Unsuitable Extinguishing Media**

Not determined.

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

Corrosive material. 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 (NO<sub>x</sub>).

#### **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. Avoid contact with skin, eyes or clothing.

**For Emergency Responders**

Use personal protection recommended in Section 8.

#### **6.2. Environmental Precautions**

See Section 12 for additional Ecological Information.

#### **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

Handle in accordance with good industrial hygiene and safety practice. Wear eye/face protection. Wear protective gloves. Wash face, hands, and any exposed skin thoroughly after handling.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling. Wash contaminated clothing 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. Store at room temperature. Protect from direct sunlight. Protect from extreme temperatures. Store locked up.

#### Packaging Materials

Rinse container before discarding.

### 7.3. Specific End Use(s)

#### Specific Use(s)

Disinfectant. Sanitizer.

#### 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>	STEL: 1000 ppm STEL: 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 ( <2 )		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. Showers. Eyewash stations. Ventilation systems.

**Personal Protective Equipment**

<b>Eye/Face Protection</b>	Wear safety glasses or goggles to protect against exposure.
<b>Hand Protection</b>	Rubber gloves.
<b>Skin and Body Protection</b>	Footwear that keeps feet dry is suggested. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory Protection</b>	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>	Mild scent No fragrance added
<b>Appearance</b>	Clear liquid	<b>Odour Threshold</b>	Not determined
<b>Colour</b>	Clear	<b>Remarks • Method</b>	
<b>pH</b>	7.0 ± 0.5 (conc) 7.0 ± 0.5 (1:128 dilution)		
<b>Melting Point/Freezing Point</b>	Not determined		
<b>Boiling Point/Boiling Range</b>	100 °C / 212 °F		
<b>Flash Point</b>	> 65 °C / > 149 °F		Pensky-Martens Closed Cup (PMCC)
<b>Evaporation Rate</b>	1.0		(Water = 1)
<b>Flammability (Solid, Gas)</b>	n/a-liquid		
<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>Specific Gravity</b>	0.99		
<b>Water Solubility</b>	Infinite		
<b>Solubility(ies)</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidising Properties</b>	Not determined		

**9.2. Other information**

None

**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**

See Sec. 7 Handling & Storage.

**10.5. Incompatible Materials**

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

**10.6. Hazardous Decomposition Products**

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

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on Toxicological Effects****Acute Toxicity****Product Information**

<b>Inhalation</b>	Do not inhale.
<b>Eye Contact</b>	Causes severe eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Ingestion</b>	Do not ingest.

**Unknown Acute Toxicity** 4.2% of the mixture consists of ingredient(s) of unknown toxicity.

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

<b>ATEmix (oral)</b>	4,617.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	6,563.20 mg/L
<b>ATEmix (inhalation-vapor)</b>	6,563.20 mg/L

**Component Information**

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

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye damage.

**Sensitization** Not classified.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Not classified.

**Reproductive toxicity** Not classified.

**STOT - single exposure** Not classified.

**STOT - repeated exposure** Not classified.

**Aspiration hazard** Not classified.

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Toxic 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 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50

**12.2. Persistence and Degradability**

Not determined.

**12.3. Bioaccumulative Potential**

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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**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

**IMDG**

- 14.1 UN/ID No UN1903
- 14.2 Proper Shipping Name Disinfectants, Liquid, Corrosive n.o.s. (Didecyl Dimethyl Ammonium Chloride)
- 14.3 Hazard Class 8
- 14.4 Packing Group III

**RID**

14.2 Proper Shipping Name Disinfectants, Liquid, Corrosive n.o.s. (Didecyl Dimethyl Ammonium Chloride)  
 14.3 Hazard Class 8  
 14.4 Packing Group III

**ADR**

14.1 UN/ID No UN1903  
 14.2 Proper Shipping Name Disinfectants, Liquid, Corrosive n.o.s. (Didecyl Dimethyl Ammonium Chloride)  
 14.3 Hazard Class 8  
 14.4 Packing Group III

**ICAO (air)**

14.1 UN/ID No UN1903  
 14.2 Proper Shipping Name Disinfectants, Liquid, Corrosive n.o.s. (Didecyl Dimethyl Ammonium Chloride)  
 14.3 Hazard Class 8  
 14.4 Packing Group III

**IATA**

14.1 UN/ID No UN1903  
 14.2 Proper Shipping Name Disinfectants, Liquid, Corrosive n.o.s. (Didecyl Dimethyl Ammonium Chloride)  
 14.3 Hazard Class 8  
 14.4 Packing Group III

**Section 15: REGULATORY INFORMATION****15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

France

**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.

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 689/2008 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical Name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
Didecylidimethylammonium chloride - 7173-51-5	I.1

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Does not apply



**International Inventories**

TSCA	Listed
EINECS/ELINCS	Listed on EINECS/Not listed on ELINCS
DSL/NDSL	Listed on DSL/Not listed on NDSL
PICCS	Listed
ENCS	Listed
IECSC	Listed
AICS	Listed
KECL	Listed

**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 H-Statements referred to under sections 2 and 3**

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H411 - Toxic to aquatic life with long lasting effects

**Classification Procedure**

Expert judgment and weight of evidence determination

**Issue Date:** 18-Aug-2014

**Revision Date:** 04-Nov-2015

**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