



# Safety Data Sheet

Issue Date: 18-Aug-2014

Revision Date: 04-Dec-2017

Version 2

## 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>REACH Only Representative</b>	<b>Supplier</b>
UK Contact	TSGE	Buckeye International, Inc.
Lewis Kirby, EU General Manager	TSGE@TSGEurope.com	2700 Wagner Place
25 Frances Brady Way		Maryland Heights, MO 63043 USA
Kingston Upon Hull		
HU9 3BW UK		

### For further information, please contact

**Contact Point** Lewis Kirby, EU General Manager: +4407792782066  
 Buckeye International, Inc.: 1-314-291-1900  
**Email Address** [info@buckeyeinternational.com](mailto: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 B - (H314)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Acute 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)**

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

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

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

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

P273 - Avoid release to the environment

P391 - Collect spillage

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

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
Di-n-alkyl Dimethyl Ammonium Chloride	Present	68424-95-3	5-10	Skin Corr. 1B (H314) (Self-Classification) Eye Dam. 1 (Self-Classification)	Not determined
Alkyl dimethyl benzyl ammonium chloride (C12-16)	Present	68424-85-1	<5	Not determined	Not determined
Ethyl Alcohol	Present	64-17-5	<2	Flam. Liq. 2 (H225)	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.

<b>Skin Contact</b>	Take off contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	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: FIREFIGHTING 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 vapours.

##### **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>
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Ethyl Alcohol 64-17-5	-	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. 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>Property</b>	<b>Values</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		
<b>Evaporation Rate</b>	1.0		Pensky-Martens Closed Cup (PMCC) (Water = 1)
<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>	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		

**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 Polymerisation**

Hazardous polymerisation 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 oxidising 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 vapours.

**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.

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

<b>ATEmix (oral)</b>	4,612.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	6,563.20 mg/L

**Unknown Acute Toxicity**

- 11.9 % of the mixture consists of ingredient(s) of unknown toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 11.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 11.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 11.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 10 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Component Information**

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

<b>Skin corrosion/irritation</b>	Causes severe skin burns.
<b>Serious eye damage/eye irritation</b>	Causes severe eye damage.
<b>Sensitisation</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	Not classified.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	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		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	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

**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      UN1903
- 14.2 Proper Shipping Name      Disinfectants, Liquid, Corrosive n.o.s. (Dialkyldimethylammonium chloride)
- 14.3 Hazard Class      8
- 14.4 Packing Group      III

**RID**

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

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

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.

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

This product does not contain substances subject to authorisation (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

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

Component	TSCA	DSL/NDSL	EINECS/ELINCS	PICCS	ENCS	IECSC	AICS	KECL
Di-n-alkyl Dimethyl Ammonium Chloride 68424-95-3 (5-10)	X	X	X	X	Present	X	X	Present
Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1 (<5)	X	X	X	X	Present	X	X	Present
Ethyl Alcohol 64-17-5 (<2)	X	X	X	X	Present	X	X	Present

**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****Full text of H-Statements referred to under section 3**

H314 - Causes severe skin burns and eye damage

H225 - Highly flammable liquid and vapour

H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend**

TWA

Ceiling

TWA (time-weighted average)

Maximum limit value

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

STEL

\*

STEL (Short Term Exposure Limit)

Skin designation

**Classification Procedure**

Expert judgment and weight of evidence determination

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

**Revision Date:** 04-Dec-2017

**Revision Note:** Regulatory update.

**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