



# Safety Data Sheet

Issue Date: 27-Dec-2011

Revision Date: 03-Jul-2013

Version 1

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

### 1.1. Product Identifier

|              |                           |
|--------------|---------------------------|
| SDS #        | BE-5090-EU                |
| Product Code | 5090                      |
| PCS Number   | 97856                     |
| Product Name | Buckeye Sanicare Quat-256 |

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

|                 |                                 |
|-----------------|---------------------------------|
| Recommended Use | Cleaner Disinfectant Waterbased |
|-----------------|---------------------------------|

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

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

### For further information, please contact

|                      |  |
|----------------------|--|
| <b>Contact Point</b> | David Pinder, EU General Manager: 011447788432884<br>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)<br>1-800-303-0441 (North America)<br>INFOTRAC 1-352-323-3500 (International)<br>1-800-535-5053 (North America) |
|-----------------------------|---|

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | Category 1 Sub-category C |
| Serious eye damage/eye irritation | Category 1                |
| Chronic aquatic toxicity          | Category 3                |

Classification according to 67/548/EEC

Full text of R-phrases: see section 16

**Hazard Symbols**

C - Corrosive

**R-code(s)**

C;R34

**2.2. Label Elements**

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

**Signal Word**

Danger

**Hazard Statements**

H314 - Causes severe skin burns and eye damage  
 H412 - Harmful to aquatic life with long lasting effects

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P264 - Wash skin thoroughly after handling  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 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  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P501 - Dispose of contents/ container to an approved waste disposal plant  
 P273 - Avoid release to the environment

**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 | 8.9      | Xn; R22<br>C; R34                      | Acute Tox. 4 (H302)<br>Skin Corr. 1B (H314)                      | Not determined            |
| Tetrasodium EDTA                 | Present | 64-02-8   | <5       | Xn; R22<br>Xi; R41                     | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)                         | Not determined            |
| Ethyl Alcohol                    | Present | 64-17-5   | <4       | F; R11                                 | Flam. Liq. 2 (H225)  | Not determined            |
| Sodium hydroxide                 | Present | 1310-73-2 | <2       | C; R35                                 | Skin Corr. 1A (H314)<br>Met. Corr. 1 (H290)<br>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. Seek immediate medical attention/advice.                          |
| <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.                |
| <b>Inhalation</b>     | Remove to fresh air. If not breathing, give artificial respiration.  |
| <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. |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Contact may cause irritation and redness. Direct eye contact may cause stinging, tearing and redness. May cause redness, pain, and severe skin burns. May cause irritation to the mucous membranes and upper respiratory tract. Ingestion may cause nausea and headache. |
|-----------------|--|

### 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. Measures against circulatory shock, respiratory depression, and convulsions may be needed. |
|---------------------------|---|

## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

#### **Suitable Extinguishing Media**

Water spray (fog). Dry powder. Foam.

#### **Unsuitable Extinguishing Media**

Not determined.

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

Toxic fumes may be given off when material is exposed to fire.

#### **Hazardous Combustion Products**

Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride.

### 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.

#### **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. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

#### **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. Store at room temperature. Keep container closed when not in use. Do not contaminate water, food, or feed by storage or disposal.

#### **Packaging Materials**

Rinse container before discarding.

### 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<br>64-17-5             |  | STEL: 3000 ppm<br>STEL: 5760 mg/m <sup>3</sup><br>TWA: 1000 ppm<br>TWA: 1920 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1910 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>Ceiling / Peak: 1000 ppm<br>Ceiling / Peak: 1920 mg/m <sup>3</sup><br>Skin |
| Sodium hydroxide<br>1310-73-2        |  | STEL: 2 mg/m <sup>3</sup>  | TWA: 2 mg/m <sup>3</sup>   | STEL: 2 mg/m <sup>3</sup>  |  |
| Component                            | Italy  | Portugal   | Netherlands  | Finland  | Denmark  |
| Ethyl Alcohol<br>64-17-5 ( <4 )      |  | TWA: 1000 ppm  | Skin<br>STEL: 1900 mg/m <sup>3</sup><br>TWA: 260 mg/m <sup>3</sup>                             | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 1300 ppm<br>STEL: 2500 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>   |
| Sodium hydroxide<br>1310-73-2 ( <2 ) |  | Ceiling: 2 mg/m <sup>3</sup>   |  | STEL: 2 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup>                                      | Ceiling: 2 mg/m <sup>3</sup>   |
| Chemical Name                        | Austria  | Switzerland  | Poland   | Norway   | Ireland  |
| Ethyl Alcohol<br>64-17-5             | STEL 2000 ppm<br>STEL 3800 mg/m <sup>3</sup><br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> | STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup><br>TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup>   | TWA: 1900 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 950 mg/m <sup>3</sup><br>STEL: 625 ppm<br>STEL: 1187.5 mg/m <sup>3</sup>  | STEL: 1000 ppm   |
| Sodium hydroxide<br>1310-73-2        | STEL 4 mg/m <sup>3</sup><br>TWA: 2 mg/m <sup>3</sup>   | STEL: 2 mg/m <sup>3</sup><br>TWA: 2 mg/m <sup>3</sup>  | STEL: 1 mg/m <sup>3</sup><br>TWA: 0.5 mg/m <sup>3</sup>  | Ceiling: 2 mg/m <sup>3</sup>   | STEL: 2 mg/m <sup>3</sup>  |

### 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

Normal work clothing (long sleeved shirts and long pants) is recommended.

##### Respiratory Protection

Provide adequate ventilation.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

#### Physical State

Liquid

#### Appearance

Clear red liquid

#### Colour

Red

#### Odour

Rose

#### Odour Threshold

Not determined

| <u>Property</u>              | <u>Values</u>                                  | <u>Remarks • Method</u> |
|------------------------------|--|-------------------------|
| pH                           | 7.6 ± 0.2 (conc)<br>7.0 ± 0.2 (1:256 dilution) |                         |
| Melting Point/Freezing Point | Not determined                                 |                         |
| Boiling Point/Boiling Range  | 100 °C / 212 °F                                |                         |
| Flash Point                  | ~93.3 °C / ~200 °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                                 |                         |
| Water Solubility             | Infinite                                       |                         |
| Solubility(ies)              | Not determined                                 |                         |
| Partition Coefficient        | Not determined                                 |                         |
| Auto-ignition Temperature    | Not determined                                 |                         |
| 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. Strong oxidizing agents. Strong reducing agents.

### 10.6. Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases or vapors.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

#### **Acute Toxicity**

#### Product Information

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

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

|             |           |
|-------------|-----------|
| Oral LD50   | 2,121.00  |
| Units       | mg/kg     |
| Dermal LD50 | 67,500.00 |
| Units       | mg/kg     |
| Inhalation  |           |
| Mist        | 3,117.50  |
| Units       | mg/L      |
| Vapor       | 3,117.50  |
| Units       | mg/L      |

| Chemical Name                                    | Oral LD50            | Dermal LD50             | Inhalation LC50          |
|--|----------------------|-------------------------|--------------------------|
| Didecyltrimethylammonium chloride                | = 84 mg/kg ( Rat )   |                         |                          |
| Alkyl dimethyl benzyl ammonium chloride (C12-16) | = 426 mg/kg ( Rat )  |                         |                          |
| Tetrasodium EDTA                                 | = 10 g/kg ( Rat )    |                         |                          |
| Ethyl Alcohol                                    | = 7060 mg/kg ( Rat ) |                         | = 124.7 mg/L ( Rat ) 4 h |
| Sodium hydroxide                                 |                      | = 1350 mg/kg ( Rabbit ) |                          |

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Not classified.                                |
| <b>Serious eye damage/eye irritation</b> | Not classified.                                |
| <b>Sensitization</b>                     | Not classified.                                |
| <b>Germ cell mutagenicity</b>            | Not classified.                                |
| <b>Carcinogenicity</b>                   | None known based on information supplied.      |
| <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.                                |
| <b>Symptoms</b>                          | 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  |
|------------------|---|---|--|
| Tetrasodium EDTA | 1.01: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 | 41: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 59.8: 96 h <i>Pimephales promelas</i> mg/L LC50 static   | 610: 24 h <i>Daphnia magna</i> mg/L EC50   |
| Ethyl Alcohol    |   | 12.0 - 16.0: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static 100: 96 h <i>Pimephales promelas</i> mg/L LC50 static 13400 - 15100: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through | 9268 - 14221: 48 h <i>Daphnia magna</i> mg/L LC50 10800: 24 h <i>Daphnia magna</i> mg/L EC50 2: 48 h <i>Daphnia magna</i> mg/L EC50 Static |
| Sodium hydroxide |   | 45.4: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static  |  |

### 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**

**Note**

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

**IMDG**

|                           |  |
|---------------------------|--|
| 14.1 UN/ID No             | UN1760   |
| 14.2 Proper Shipping Name | Corrosive liquid, n.o.s. (Dimethyl benzyl ammonium chloride, Sodium hydroxide) |
| 14.3 Hazard Class         | 8  |
| 14.4 Packing Group        | III  |
| 14.5                      |  |
| 14.6                      |  |
| 14.7                      |  |

**RID**

|                           |  |
|---------------------------|--|
| 14.1 UN/ID No             | UN1760   |
| 14.2 Proper Shipping Name | Corrosive liquid, n.o.s. (Dimethyl benzyl ammonium chloride, Sodium hydroxide) |
| 14.3 Hazard Class         | 8  |
| 14.4 Packing Group        | III  |
| 14.5                      |  |
| 14.6                      |  |

**ADR**

|                           |  |
|---------------------------|--|
| 14.1 UN/ID No             | UN1760   |
| 14.2 Proper Shipping Name | Corrosive liquid, n.o.s. (Dimethyl benzyl ammonium chloride, Sodium hydroxide) |
| 14.3 Hazard Class         | 8  |
| 14.4 Packing Group        | III  |
| 14.5                      |  |
| 14.6                      |  |

**ICAO (air)**

|                           |  |
|---------------------------|--|
| 14.1 UN/ID No             | UN1760   |
| 14.2 Proper Shipping Name | Corrosive liquid, n.o.s. (Dimethyl benzyl ammonium chloride, Sodium hydroxide) |
| 14.3 Hazard Class         | 8  |
| 14.4 Packing Group        | III  |
| 14.5                      |  |
| 14.6                      |  |

**IATA**

|                           |  |
|---------------------------|--|
| 14.1 UN/ID No             | UN1760   |
| 14.2 Proper Shipping Name | Corrosive liquid, n.o.s. (Dimethyl benzyl ammonium chloride, Sodium hydroxide) |
| 14.3 Hazard Class         | 8  |
| 14.4 Packing Group        | III  |
| 14.5                      |  |
| 14.6                      |  |

|   |
|---|
| <b>Section 15: REGULATORY INFORMATION</b> |
|---|

**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<br>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          | - |
| 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

R34 - Causes burns

R41 - Risk of serious damage to eyes

R11 - Highly flammable

R35 - Causes severe burns

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

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H290 - May be corrosive to metals

H318 - Causes serious eye damage

H225 - Highly flammable liquid and vapor

**Classification Procedure**

Calculation method

**Issue Date:** 27-Dec-2011

**Revision Date:** 03-Jul-2013

**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