MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER
BUCKEYE SANICARE QUAT 256-PDF CODE: 5092

PRODUCT USE
Cleaner Disinfectant, Water Based

MANUFACTURER'S NAME
BUCKEYE INTERNATIONAL, INC.

STREET ADDRESS
2700 WAGNER PLACE

CITY
MARYLAND HEIGHTS

POSTAL CODE
63043-3471

TRANSPORTATION EMERGENCY TELEPHONE NUMBER
1-800-535-5053

SECTION 2 - INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>% wgt/wgt</th>
<th>CAS NUMBER</th>
<th>LD₅₀ OF INGREDIENT</th>
<th>LC₅₀ OF INGREDIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blend of Didecyl Dimethyl and n-Alkyl Dimethyl Benzyl</td>
<td>16.9</td>
<td>7173-51-1</td>
<td>Rat Oral 590 mg/kg</td>
<td>Not Available</td>
</tr>
<tr>
<td>Ammonium Chlorides</td>
<td></td>
<td>68424-85-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soft Water</td>
<td>40-70</td>
<td>7732-18-5</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Octyl Dimethyl Amine Oxide</td>
<td>5-10</td>
<td>2605-78-9</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Tetrasodium Ethylenediamine-tetraacetate</td>
<td>1-5</td>
<td>64-02-8</td>
<td>Rat Oral 4.1 g/kg</td>
<td>Not Available</td>
</tr>
<tr>
<td>Ethanol</td>
<td>1-5</td>
<td>64-17-5</td>
<td>Rat Oral 7060 mg/kg</td>
<td>38mg/L/10hr Rat</td>
</tr>
</tbody>
</table>

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE
Liquid

ODOUR AND APPEARANCE
None - No Fragrance Added; Clear, Odorless Solution

VAPOUR PRESSURE (mmHg)
Not Available

VAPOUR DENSITY (Air=1)
Not Available

EVAPORATION RATE (Water =1)
1

BOILING POINT (°C)
100°

FREEZING POINT (˚C)
0°

pH (CONC.)
7.6 ± 0.2

pH (USE DILUTION)
7.0 ± 0.2

SPECIFIC GRAVITY
1.00 ± 0.01

COEFF. WATER/OIL DIST.
Not Available

ODOUR THRESHOLD (ppm)
Not Available

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY
No

MEANS OF EXTINCTION
Water, Dry Powder, Foam

FLASHPOINT (°C) AND METHOD
~ 93° - Tag Closed Cup

UPPER FLAMMABLE LIMIT (% BY VOLUME)
Not Applicable

LOWER FLAMMABLE LIMIT (% BY VOLUME)
Not Applicable

HAZARDOUS COMBUSTION PRODUCTS
Oxides of carbon and nitrogen, hydrogen chloride gas

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY
Yes

INCOMPATIBILITY WITH OTHER SUBSTANCES?
Yes

IF SO, WHICH ONES?
Strong oxidizing or reducing agents.

REACTIVITY, AND UNDER WHAT CONDITIONS
Do not mix with chlorine bleach or anionic detergents.

Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating vapors or gases.
### SECTION 6 - TOXICOLOGICAL PROPERTIES

<table>
<thead>
<tr>
<th>ROUTE OF ENTRY</th>
<th>SKIN CONTACT</th>
<th>SKIN ABSORPTION</th>
<th>EYE CONTACT</th>
<th>INHALATION</th>
<th>INGESTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**EFFECTS OF ACUTE EXPOSURE TO PRODUCT**
- Corrosive to eyes and skin. Harmful if swallowed.

**EFFECTS OF CHRONIC EXPOSURE TO PRODUCT**
- None Known.

<table>
<thead>
<tr>
<th>EXPOSURE LIMITS</th>
<th>IRRITANCY OF PRODUCT</th>
<th>SENSITIZATION TO PRODUCT</th>
<th>CARCINOGENICITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Available</td>
<td>Corrosive to eyes and skin</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TERATOGENICITY</th>
<th>REPRODUCTIVE TOXICITY</th>
<th>MUTAGENICITY</th>
<th>SYNERGISTIC PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None Known</td>
</tr>
</tbody>
</table>

### SECTION 7 - PREVENTIVE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT**

- **GLOVES (SPECIFY)**
  - Rubber gloves or other chemical resistant gloves.
- **RESPIRATOR (SPECIFY)**
  - Avoid breathing spray mist.
- **EYE (SPECIFY)**
  - Wear chemical splash goggles or face shield.
- **FOOTWEAR (SPECIFY)**
  - Normal Footwear
- **CLOTHING (SPECIFY)**
  - Normal clothing which covers skin.
- **OTHER (SPECIFY)**
  - None Required

**ENGINEERING CONTROLS**
- Maintain adequate room ventilation.
- LEAK AND SPILL PROCEDURE
  - Pick up with mop, wet/dry vac or absorbent material.
  - Rinse area with clear water and allow floor to dry before allowing traffic.
- WASTE DISPOSAL
  - Flush to sanitary sewer, or send to sanitary landfill following local, provincial and federal laws.
- HANDLING PROCEDURES AND EQUIPMENT
  - Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.
- STORAGE REQUIREMENTS
  - **KEEP OUT OF REACH OF CHILDREN!**
  - Keep container closed when not in use.
  - Store at room temperature. Rinse container before discarding.

**SPECIAL SHIPPING INFORMATION**
- Disinfectant, Liquid, NOIBN

### SECTION 8 - FIRST AID MEASURES

**SPECIFIC MEASURES**
- Call a poison control center or doctor immediately for treatment advice. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Take container, label or product name and registration number with you when seeking medical attention.
- Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**RATING**
- **This product is exempt under WHMIS. (DIN 02152363)**
- **HAZARD**
  - **HEALTH**
    - NFPA: 3
    - HMIS: 3
  - **FIRE**
    - NFPA: 1
    - HMIS: 1
  - **REACTIVITY**
    - NFPA: 0
    - HMIS: 0
  - **RATING**
    - 4 = EXTREME
    - 3 = SERIOUS
    - 2 = MODERATE
    - 1 = SLIGHT
    - 0 = MINIMAL

### SECTION 9 - PREPARATION DATE OF MSDS

<table>
<thead>
<tr>
<th>PREPARED BY (GROUP, DEPARTMENT, ETC.)</th>
<th>PHONE NUMBER</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCOTT MAAG - VICE PRESIDENT OF OPERATIONS</td>
<td>(314) 291-1900</td>
<td>February 15, 2018</td>
</tr>
</tbody>
</table>