1. IDENTIFICATION

Product Identifier

Product Name  Buckeye Juggernaut

Other means of identification

SDS #  BE-5028-CA

Product Code  5028

Synonyms  None

UN/ID No  UN1760

Recommended use of the chemical and restrictions on use

Recommended Use  Floor finish stripper, water based

Uses Advised Against  No information available

Details of the supplier of the safety data sheet

Initial Supplier Identifier  THIS SAFETY DATA SHEET IS NOT COMPLIANT UNLESS CANADIAN ADDRESS IS USED

United States Supplier Address  Buckeye International, Inc.

2700 Wagner Place

Maryland Heights, MO 63043 USA

1-314-291-1900

24 hr Emergency Telephone Numbers

TRANSPORTATION - INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

MEDICAL - 1-651-632-8956 (International)  1-800-303-0441 (North America)

2. HAZARDS IDENTIFICATION

Appearance  Clear purple solution  Physical state  Liquid  Odour  Mild scent No fragrance added

Classification

| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 1  Sub-category B |
| Serious eye damage/eye irritation | Category 1 |

Label Elements
Signal word
Danger

Hazard statements
Harmful if inhaled
Causes severe skin burns and eye damage

Precautionary Statements - Prevention
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapours/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
Immediately call a POISON CENTRE or doctor
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTRE or doctor
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTRE or doctor if you feel unwell
Immediately call a POISON CENTRE or doctor
IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Information
Harmful to aquatic life with long lasting effects
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>20</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Monoethanolamine</td>
<td>141-43-5</td>
<td>10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Ethylene glycol monophenyl ether</td>
<td>122-99-6</td>
<td>10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Di(ethylene glycol) ethyl ether</td>
<td>111-90-0</td>
<td>10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Octanoic Acid</td>
<td>124-07-2</td>
<td>5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Sodium metasilicate</td>
<td>6834-92-0</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First Aid Measures

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor/physician.

Skin contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison centre or doctor/physician.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Most important symptoms and effects

Symptoms

Causes severe skin burns and eye damage. Ingestion may cause nausea and headache. Can cause defatting of skin tissue.

Indication of any immediate medical attention and special treatment needed

Note to doctors

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Combustion products may be toxic.

Hazardous Combustion Products

Explosion Data
Sensitivity to Mechanical Impact: None.
Sensitivity to Static Discharge: None.

Special protective equipment for fire-fighters:
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment as required.

Environmental precautions

Environmental precautions
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Pick up with mop, wet/dry vac, or absorbent material. Rinse area with clear water and allow floor to dry before allowing traffic.

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep container closed when not in use. Store at room temperature. Store away from incompatible materials. Store on low shelves. Store locked up.

Packaging materials
Rinse container before discarding.

Incompatible materials
Chlorine bleach Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Canada - Alberta - Occupational Exposure Limits - Ceilings</th>
<th>Canada - British Columbia - Occupational Exposure Limits - Ceilings</th>
<th>Canada - Ontario - Occupational Exposure Limits - Ceilings</th>
<th>Quebec</th>
</tr>
</thead>
</table>
| Monoethanolamine 141-43-5 | TWA: 3 ppm  
TWA: 7.5 mg/m³  
STEL: 6 ppm | TWA: 3 ppm  
STEL: 6 ppm | TWA: 3 ppm  
STEL: 6 ppm | TWA: 3 ppm  
TWA: 7.5 mg/m³  
STEL: 6 ppm |
<table>
<thead>
<tr>
<th></th>
<th>STEL: 15 mg/m³</th>
<th>TWA: 25 ppm</th>
<th>STEL: 15 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol monophenyl ether 122-99-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Di(ethylene glycol) ethyl ether 111-90-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
<td>Ceiling: 2 mg/m³</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering controls**
- Showers
- Eyewash stations
- Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
- Wear goggles or chemical safety glasses.

**Skin and body protection**
- Rubber gloves. Normal work clothing (long sleeved shirts and long pants) is recommended.
  - Wear water or chemical resistant footwear when scrubbing floors.

**Respiratory protection**
- Ensure adequate ventilation, especially in confined areas.

**General hygiene considerations**
- Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear purple solution</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Clear purple</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>Mild scent No fragrance added</td>
<td></td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>12.8-13.2 (conc.)</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>100 °C / 212 °F</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Liquid-Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapour Density</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.05</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Infinite</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
Other Information
Softening Point: No information available
Molecular weight: No information available
VOC Content (%): No information available
Density: No information available
Bulk Density: No information available

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous Polymerisation: Hazardous polymerisation does not occur.


11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye contact: Causes severe eye damage.

Skin contact: Causes severe skin burns. May be harmful in contact with skin.

Inhalation: Harmful if inhaled.

Ingestion: May be harmful if swallowed.

Information on physical, chemical and toxicological effects

Symptoms: Please see section 4 of this SDS for symptoms.

Numerical measures of toxicity

Not determined

Acute Toxicity

Unknown acute toxicity: No information available

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl alcohol 100-51-6</td>
<td>1230 mg/kg (Rat)</td>
<td>2 g/kg (Rabbit)</td>
<td>8.8 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Monoethanolamine 141-43-5</td>
<td>1720 mg/kg (Rat)</td>
<td>1 mL/kg (Rabbit)</td>
<td>1000 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>Ethylene glycol monophenyl</td>
<td>1260 mg/kg (Rat)</td>
<td>5 mL/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>
### Chemical Name and Effects

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ether</strong> 122-99-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Di(ethylene glycol) ethyl ether 111-90-0</td>
<td>= 10502 mg/kg ( Rat )</td>
<td>= 6 mL/kg ( Rat ) = 9143 mg/kg ( Rabbit ) = 4200 µL/kg ( Rabbit )</td>
<td>&gt; 5240 mg/m³ ( Rat ) 4 h</td>
<td></td>
</tr>
<tr>
<td>Octanoic Acid 124-07-2</td>
<td>= 10080 mg/kg ( Rat )</td>
<td>&gt; 5 g/kg ( Rabbit )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate 6834-92-0</td>
<td>= 1153 mg/kg ( Rat )</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>-</td>
<td>= 1350 mg/kg ( Rabbit )</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Di(ethylene glycol) monophenyl ether</strong> 122-99-6</td>
<td>500: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>366: 96 h Pimephales promelas mg/L LC50 static 337 - 352: 96 h Pimephales promelas mg/L LC50 flow-through 220 - 460: 96 h Leuciscus idus mg/L LC50 static</td>
<td>EC50 = 32.4 mg/L 5 min EC50 = 880 mg/L 17 h</td>
<td>500: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td><strong>Di(ethylene glycol) ethyl ether</strong> 111-90-0</td>
<td>-</td>
<td>11400 - 15700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11600 - 16700: 96 h Pimephales promelas mg/L LC50 flow-through 13400: 96 h Salmo gairdneri mg/L LC50 flow-through 10000: 96 h Lepomis macrochirus</td>
<td>-</td>
<td>3940 - 4670: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity**

Based on available data, the classification criteria are not met.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life with long lasting effects.
mg/L LC50 static 19100 - 23900: 96 h Lepomis macrochirus mg/L LC50 flow-through

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl alcohol 100-51-6</td>
<td>1.1</td>
</tr>
<tr>
<td>Monoethanolamine 141-43-5</td>
<td>-1.91</td>
</tr>
<tr>
<td>Ethylene glycol monophenyl ether 122-99-6</td>
<td>1.13</td>
</tr>
<tr>
<td>D(ethylene glycol) ethyl ether 111-90-0</td>
<td>-0.8</td>
</tr>
<tr>
<td>Octanoic Acid 124-07-2</td>
<td>2.92</td>
</tr>
</tbody>
</table>

Persistence/Degradability: No information available.

Bioaccumulation: No information available.

Mobility: -

Other Adverse Effects: No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

Waste from residues/unused products: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**DOT**

- UN/ID No: UN1760
- Proper Shipping Name: Corrosive liquid, n.o.s. (Ethanolamine, Sodium hydroxide)
- Hazard Class: 8
- Packing Group: II
- Reportable Quantity (RQ): 1000 lb

**TDG**

- UN/ID No: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s. (Ethanolamine, Sodium hydroxide)
Hazard Class: 8
Packing Group: II

IATA
UN/ID No: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s. (Ethanolamine, Sodium hydroxide)
Hazard Class: 8
Packing Group: II

IMDG
UN/ID No: UN1760
Proper Shipping Name: Corrosive liquid, n.o.s. (Ethanolamine, Sodium hydroxide)
Hazard Class: 8
Packing Group: II

15. REGULATORY INFORMATION

REGULATORY INFORMATION

International Regulations

Ozone-depleting substances (ODS) Not applicable
Persistent Organic Pollutants Not applicable
Export Notification requirements Not applicable

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL/NDSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethylene glycol monophenyl ether</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Di(ethylene glycol) ethyl ether</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Octanoic Acid</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECS - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>HMIS</td>
<td>Health Hazards</td>
<td>Flammability</td>
<td>Physical hazards</td>
<td>Personal Protection</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend  Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA  TWA (time-weighted average)
STEL  STEL (Short Term Exposure Limit)
Ceiling  Maximum limit value
*  Skin designation

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

**Revision Date:** 11-Nov-2016

**Revision Note:** Canadian format

**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