



# Safety Data Sheet

Issue Date: 27-Dec-2011

Revision Date: 06-Dec-2018

Version 2

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

### 1.1. Product Identifier

**SDS #** BE-5055-EU  
**Product Code** 5055  
**Product Name** Buckeye Two-O-One

Contains Sodium metasilicate, Sodium hydroxide, Tetrasodium EDTA

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Heavy duty degreaser/ cleaner Water based

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

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

Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 3 - (H412)

### 2.2. Label Elements

**Product Identifier**  
 Contains Sodium metasilicate, Sodium hydroxide, Tetrasodium EDTA

**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)**

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

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

P273 - Avoid release to the environment

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

P310 - Immediately call a POISON CENTER or doctor/physician

P405 - Store locked up

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

**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
Sodium hydroxide	Present	1310-73-2	4.4	Skin Corr. 1A (H314)	Not determined
Tetrasodium EDTA	Present	64-02-8	<3	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	Not determined
Sodium metasilicate	Present	6834-92-0	<3	Skin Corr. 1B (H314) STOT SE 3 (H335)	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****Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

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<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. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove to fresh air. Call a physician.
<b>Ingestion</b>	Drink 2-3 large glasses of water. Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.

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

<b>Symptoms</b>	Contact will cause irritation and redness to exposed areas. May cause redness, pain, and severe skin burns. Inhalation causes irritation and burning to nose and throat. Ingestion may cause nausea and headache. Can cause defatting of skin tissue.
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#### **4.3. Indication of any Immediate Medical Attention and Special Treatment Needed**

<b>Notes to Physician</b>	Treat symptomatically. Dermatitis or other pre-existing skin conditions may be aggravated by overexposure to this product.
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### **Section 5: FIRE-FIGHTING MEASURES**

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

##### **Suitable Extinguishing Media**

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

##### **Unsuitable Extinguishing Media**

Not determined.

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

Combustion products may be toxic.

**Hazardous combustion products** Oxides of sulfur. Carbon oxides. Silicon oxides. Nitrogen oxides (NOx).

#### **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**

See Section 12 for additional Ecological Information.

#### **6.3. Methods and Material for Containment and Cleaning Up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
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<b>Methods for Clean-Up</b>	Pick up with mop, wet/dry vac, or absorbent material. Rinse area with clear water and allow floor to dry before allowing traffic.
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**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**

Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Avoid release to the environment. Keep out of the reach of children. If concentrated or diluted product is allowed to dry on glass, etching may occur.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.

**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 away from incompatible materials. Store at room temperature. Store on low shelves.

**Packaging Materials**

Rinse container before discarding.

**7.3. Specific End Use(s)****Specific Use(s)**

Heavy duty degreaser/ cleaner. Water based.

**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
Sodium hydroxide 1310-73-2	-	STEL: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Sodium hydroxide 1310-73-2	-	Ceiling: 2 mg/m <sup>3</sup>	-	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Sodium hydroxide 1310-73-2	STEL 4 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	STEL: 1 mg/m <sup>3</sup> 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**

Wear water or chemical resistant footwear when scrubbing floors.

**Respiratory Protection**

None normally required. Dust/mist respirator is needed when product is sprayed.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Physical state</b>	Liquid	<b>Odor</b>	Citrus
<b>Appearance</b>	Clear, yellow liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Yellow		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	13.0 ± 0.2 (conc) 12.0 ± 0.2 (1:40 dilution)		
<b>Melting point / freezing point</b>	Not determined		
<b>Boiling point / boiling range</b>	100 °C / 212 °F		
<b>Flash point</b>	None		
<b>Evaporation Rate</b>	1.0	(n-BuAc =1)	
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable		
<b>Flammability Limit in Air</b>			
<b>Upper flammability or explosive limits</b>	Not applicable		
<b>Lower flammability or explosive limits</b>	Not applicable		
<b>Vapor Pressure</b>	Not determined		
<b>Vapor Density</b>	Not determined		
<b>Relative Density</b>	1.06		
<b>Water Solubility</b>	Mostly Soluble		
<b>Solubility(ies)</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Autoignition 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>Oxidizing 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 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

Acids. Chlorine bleach.

### 10.6. Hazardous Decomposition Products

Sulfur oxides. Carbon oxides. Silicon oxides. Nitrogen oxides (NO<sub>x</sub>).

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

#### Acute toxicity

#### Product Information

<b>Inhalation</b>	Do not inhale.
<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Ingestion</b>	Do not ingest.

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

<b>ATEmix (oral)</b>	2,115.11 mg/kg
<b>ATEmix (dermal)</b>	16,253.20 mg/kg

#### Unknown Acute Toxicity

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

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dipropylene glycol monobutyl ether	= 1620 µL/kg ( Rat )	= 5860 µL/kg ( Rabbit )	= 42.1 ppm ( Rat ) 4 h
Neodecanoic Acid	= 2000 mg/kg ( Rat )	> 3160 mg/kg ( Rat )	> 3 mg/L ( Rat ) 6 h
Sodium hydroxide	140 - 340 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	
Tetrasodium EDTA	= 1658 mg/kg ( Rat ) = 10 g/kg ( Rat )		
Sodium metasilicate	= 1153 mg/kg ( Rat )		

<b>Skin corrosion/irritation</b>	Causes severe skin burns.
<b>Serious eye damage/eye irritation</b>	Causes severe eye damage.
<b>Sensitization</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

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium hydroxide		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	
Tetrasodium EDTA	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	610: 24 h Daphnia magna mg/L EC50
Sodium metasilicate		210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	216: 96 h Daphnia magna mg/L EC50

**12.2. Persistence and Degradability**

Not determined.

**12.3. Bioaccumulative Potential**

There is no data for this product.

**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 number	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Sodium hydroxide)
14.3 Transport hazard class(es)	8
14.4 Packing Group	II

**RID**

14.1 UN/ID No	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Sodium hydroxide)
14.3 Transport hazard class(es)	8
14.4 Packing Group	II

**ADR**

14.1 UN number	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Sodium hydroxide)
14.3 Transport hazard class(es)	8
14.4 Packing Group	II

**IATA**

14.1 UN number	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Sodium hydroxide)
14.3 Transport hazard class(es)	8
14.4 Packing Group	II

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

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

Not applicable

**International Inventories**

Component	TSCA	DSL/NDSL	EINECS/ELINCS	PICCS	ENCS	IECSC	AICS	KECL
Dipropylene glycol monobutyl ether 29911-28-2 ( <7 )	X	X	X	X	X	X	X	X
Neodecanoic Acid 26896-20-8 ( <5 )	X	X	X	X	X	X	X	X
Sodium hydroxide 1310-73-2 ( 4.4 )	X	X	X	X	X	X	X	X
Tetrasodium EDTA 64-02-8 ( <3 )	X	X	X	X	X	X	X	X
Sodium metasilicate 6834-92-0 ( <3 )	X	X	X	X	X	X	X	X

**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**

- H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation

**Legend**

SVHC: Substances of Very High Concern for Authorization:

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

**Classification Procedure**

Calculation method

**Issue Date:** 27-Dec-2011**Revision Date:** 06-Dec-2018**Revision Note:** Regulatory update.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2015/830

**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