



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-5028-EU
Product Code 5028
Product Name Buckeye Juggernaut

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

Recommended Use Floor finish stripper Waterbased

1.3. Details of the Supplier of the Safety Data Sheet

Importer UK Contact David Pinder, EU General Manager 12 Paskin Close Fradley Village, NR Lichfield Staffordshire, WS13 8NZ UK	REACH Only Representative TSGE TSGE@TSGEurope.com	Supplier Buckeye International, Inc. 2700 Wagner Place Maryland Heights, MO 63043 USA
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For further information, please contact

Contact Point David Pinder, EU General Manager: 011447788432884
Buckeye International, Inc.: 1-314-291-1900
Email Address 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

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
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)

Xn;R20/22 - C;R34 - Xi;R37

2.2. Label Elements**Signal Word**

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled

H412 - Harmful to aquatic life with long lasting effects

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

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

P271 - Use only outdoors or in a well-ventilated area

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

P312 - Call a POISON CENTER or doctor if you feel unwell

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

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
Benzyl alcohol	Present	100-51-6	<20	Xn; R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H332)	Not determined
Monoethanolamine	Present	141-43-5	10	Xn; R20/21/22 C; R34	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1B (H314)	Not determined

Ethylene glycol monophenyl ether	Present	122-99-6	<10	Xn; R22 Xi; R36	Acute Tox. 4 (H302) Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Eye Irrit. 2 (H319)	Not determined
Di(ethylene glycol) ethyl ether	Present	111-90-0	<10	-	Not determined	Not determined
Octanoic Acid	Present	124-07-2	<5	-	Skin Corr. 1B (H314)	Not determined
Sodium xylenesulfonate	Present	1300-72-7	<4	-	Eye Irrit. 2 (H319)	Not determined
Sodium metasilicate	Present	6834-92-0	2	C; R34 Xi; R37	Skin Corr. 1B (H314) STOT SE 3 (H335) Skin Corr. 1B (H314) STOT SE 3 (inhalation) Met. Corr. 1 (H290) Eye Dam. 1 (H318)	Not determined
Sodium hydroxide	Present	1310-73-2	1	C; R35	Skin Corr. 1A (H314) Skin Corr. 1A (H314) Met. Corr. 1 (H290) Eye Dam. 1 (H318)	Not determined

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Additional Information

Substances without a classification are included because they have established occupational exposure limits

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.
Skin Contact	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.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell.
Ingestion	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

Symptoms	Contact will cause irritation and redness to exposed areas. May cause redness, pain, and severe skin burns. 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

Notes to Physician	Treat symptomatically. Dermatitis or other pre-existing skin conditions may be aggravated by overexposure to this product.
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SECTION 5: FIREFIGHTING 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

Carbon oxides. Oxides of sulfur. Nitrogen oxides (NOx). Silicon oxides.

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, for additional information.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for Safe Handling****Advice on Safe Handling**

Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Use personal protection recommended in Section 8. Avoid release to the environment. Keep out of the reach of children.

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. Store at room temperature. Keep container closed when not in use. Store away from incompatible materials. Store on low shelves.

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
Monoethanolamine 141-43-5	TWA: 1 ppm TWA: 2.5 mg/m ³ Skin	STEL: 3 ppm STEL: 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³ Skin	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³	S* STEL: 3 ppm STEL: 7.5 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³	TWA: 2 ppm TWA: 5.1 mg/m ³ Ceiling / Peak: 4 ppm Ceiling / Peak: 10.2 mg/m ³
Ethylene glycol monophenyl ether 122-99-6					TWA: 20 ppm TWA: 110 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 220 mg/m ³ Skin
Di(ethylene glycol) ethyl ether 111-90-0					TWA: 50 mg/m ³ Ceiling / Peak: 100 mg/m ³ TWA: 6 ppm TWA: 35 mg/m ³
Sodium hydroxide 1310-73-2		STEL: 2 mg/m ³	TWA: 2 mg/m ³	STEL: 2 mg/m ³	
Component	Italy	Portugal	Netherlands	Finland	Denmark
Benzyl alcohol 100-51-6 (<20)				TWA: 10 ppm TWA: 45 mg/m ³	
Monoethanolamine 141-43-5 (10)	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ Skin	STEL: 6 ppm TWA: 3 ppm	Skin STEL: 7.6 mg/m ³ TWA: 2.5 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ Skin	TWA: 1 ppm TWA: 2.5 mg/m ³ Skin
Ethylene glycol monophenyl ether 122-99-6 (<10)				TWA: 20 ppm TWA: 110 mg/m ³ STEL: 50 ppm STEL: 290 mg/m ³ Skin	
Sodium hydroxide 1310-73-2 (1)		Ceiling: 2 mg/m ³		STEL: 2 mg/m ³ Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Benzyl alcohol 100-51-6			TWA: 240 mg/m ³		
Monoethanolamine 141-43-5	Skin STEL 3 ppm STEL 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³	STEL: 4 ppm STEL: 10 mg/m ³ TWA: 2 ppm TWA: 5 mg/m ³	STEL: 7.5 mg/m ³ TWA: 2.5 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³ Skin STEL: 3 ppm STEL: 5 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ Skin
Ethylene glycol monophenyl ether 122-99-6	Skin STEL 20 ppm STEL 110 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³ Ceiling 20 ppm Ceiling 110 mg/m ³	Skin STEL: 40 ppm STEL: 220 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³	TWA: 230 mg/m ³		

Di(ethylene glycol) ethyl ether 111-90-0	STEL 24 ppm STEL 140 mg/m ³ TWA: 6 ppm TWA: 35 mg/m ³	STEL: 100 mg/m ³ TWA: 50 mg/m ³			
Sodium hydroxide 1310-73-2	STEL 4 mg/m ³ TWA: 2 mg/m ³	STEL: 2 mg/m ³ TWA: 2 mg/m ³	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³

8.2. Exposure Controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Personal Protective Equipment

Eye/Face Protection Wear goggles or chemical safety glasses.
Hand Protection Rubber gloves.
Skin and Body Protection Normal work clothing (long sleeved shirts and long pants) is recommended. Wear water or chemical resistant footwear when scrubbing floors.
Respiratory Protection Provide adequate ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on Basic Physical and Chemical Properties**

Physical State	Liquid	Odor	Mild scent No fragrance added
Appearance	Clear purple solution	Odor Threshold	Not determined
Color	Clear purple		
Property	Values	Remarks • Method	
pH	13.0 ± 0.2 (conc) 12.3 ± 0.2 (1:4 dilution)		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	100 °C / 212 °F		
Flash Point	None		
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		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Specific Gravity	1.05		
Water Solubility	Infinite		
Solubility(ies)	Not determined		
Partition Coefficient	Not determined		
Autoignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

9.2. Other information**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. Acids.

10.6. Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Silicon oxides.

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.

Inhalation Harmful if inhaled.

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

Oral LD50	2,525.00
UNITS	mg/kg
Dermal LD50	4,800.00
UNITS	mg/kg
Inhalation	
Gas	3,500.00
UNITS	mg/L
Mist	4.60
UNITS	mg/L
Vapor	44.00
UNITS	mg/L

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol	= 1230 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
Di(ethylene glycol) ethyl ether	= 1920 mg/kg (Rat)	= 4200 µL/kg (Rabbit) = 6 mL/kg (Rat)	> 5240 mg/m ³ (Rat) 4 h
Ethylene glycol monophenyl ether	= 1260 mg/kg (Rat)	= 5 mL/kg (Rabbit) = 14422 mg/kg (Rat)	

Monoethanolamine	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit) = 1025 mg/kg (Rabbit)	
Octanoic Acid	= 10080 mg/kg (Rat)	> 5 g/kg (Rabbit)	
Sodium xylenesulfonate	= 7200 mg/kg (Rat)		
Sodium metasilicate	= 600 mg/kg (Rat)		
Sodium hydroxide		= 1350 mg/kg (Rabbit)	

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Symptoms

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
Benzyl alcohol	35: 3 h <i>Anabaena variabilis</i> mg/L EC50	460: 96 h <i>Pimephales promelas</i> mg/L LC50 static 10: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	23: 48 h water flea mg/L EC50
Monoethanolamine	15: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	227: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 3684: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 300 - 1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 114 - 196: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 200: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through	65: 48 h <i>Daphnia magna</i> mg/L EC50
Ethylene glycol monophenyl ether	500: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	337 - 352: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 366: 96 h <i>Pimephales promelas</i> mg/L LC50 static 220 - 460: 96 h <i>Leuciscus idus</i> mg/L LC50 static	500: 48 h <i>Daphnia magna</i> mg/L EC50
Di(ethylene glycol) ethyl ether		11400 - 15700: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 11600 - 16700: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 10000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 19100 - 23900: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 13400: 96 h <i>Salmo gairdneri</i> mg/L LC50 flow-through	3940 - 4670: 48 h <i>Daphnia magna</i> mg/L EC50
Octanoic Acid		310: 96 h <i>Oryzias latipes</i> mg/L LC50 semi-static 110: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static	170: 24 h <i>Daphnia magna</i> mg/L EC50
Sodium metasilicate		210: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static 210: 96 h <i>Brachydanio rerio</i> mg/L LC50	216: 96 h <i>Daphnia magna</i> mg/L EC50
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
Benzyl alcohol	1.1
Monoethanolamine	-1.91
Ethylene glycol monophenyl ether	1.13
Di(ethylene glycol) ethyl ether	-0.8
Octanoic Acid	2.92

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. (Ethanolamine, Sodium hydroxide)
 14.3 **Hazard Class** 8
 14.4 **Packing Group** II
 14.5
 14.6
 14.7

RID

14.1 **UN/ID No** UN1760
 14.2 **Proper Shipping Name** Corrosive liquid, n.o.s. (Ethanolamine, Sodium hydroxide)
 14.3 **Hazard Class** 8
 14.4 **Packing Group** II
 14.5
 14.6

ADR

14.1 **UN/ID No** UN1760
 14.2 **Proper Shipping Name** Corrosive liquid, n.o.s. (Ethanolamine, Sodium hydroxide)
 14.3 **Hazard Class** 8
 14.4 **Packing Group** II
 14.5
 14.6

ICAO (air)

14.1 **UN/ID No** UN1760
 14.2 **Proper Shipping Name** Corrosive liquid, n.o.s. (Ethanolamine, Sodium hydroxide)
 14.3 **Hazard Class** 8
 14.4 **Packing Group** II
 14.5
 14.6

IATA

14.1 UN/ID No	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Ethanolamine, Sodium hydroxide)
14.3 Hazard Class	8
14.4 Packing Group	II
14.5	
14.6	

SECTION 15: REGULATORY INFORMATION

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
Benzyl alcohol 100-51-6	RG 84	
Monoethanolamine 141-43-5	RG 49, RG 49bis	
Ethylene glycol monophenyl ether 122-99-6	RG 84	
Di(ethylene glycol) ethyl ether 111-90-0	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

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
R36 - Irritating to eyes
R34 - Causes burns
R37 - Irritating to respiratory system
R35 - Causes severe burns
R20/22 - Harmful by inhalation and if swallowed
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

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

H302 - Harmful if swallowed
H332 - Harmful if inhaled
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H290 - May be corrosive to metals
H318 - Causes serious eye damage

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