E	Buckey	2 <sup>®</sup>	Safety	<sup>y</sup> Data S	heet	
Issue Date: 2	27-Dec-2011	Revision Date: 06-M	lay-2019		١	ersion 4
		1. IDENTIFIC	ATION			
<u>Product identi</u> Product Name	ifier	Buckeye Blue				
Other means of SDS #	of identification	BE-5001				
Product Code		5001				
<u>Recommende</u> Recommende	<u>d use of the chemical</u> d Use	and restrictions on use All Purpose Cleaner, Water Ba	ased.			
Details of the s Supplier Addr Buckeye Intern 2700 Wagner F Maryland Heigh <u>Emergency tel</u> Company Pho Emergency Te	supplier of the safety ess lational, Inc. Place hts, MO 63043 USA lephone number one Number elephone	<u>data sheet</u> 1-651-632-8956 (International 1-800-303-0441 (North Americ Transportation - INFOTRAC 1 1-800-535-5053 (North Americ Medical - (International) 1-651	) ca) -352-323-3500 (Interi ca) -632-8956 (North Am	national) erica) 1-800-303	-0441	
		2. HAZARDS IDEN	TIFICATION			
Appearance <u>Classification</u>	Clear blue liquid -	Physical state	Liquid		Odor Citrus	s fragrance
Serious eye da	mage/eye irritation			Category 1		
<u>Signal Word</u> Danger						
Hazard statem Causes serious	<u>nents</u> s eye damage	ion				

Wear eye/face protection

#### Precautionary Statements - Response

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 CENTER or doctor

#### Other hazards

Harmful to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Tetrasodium Ethylenediaminetetraacetate	64-02-8	3-7
Polyethylene glycol octylphenyl ether	9036-19-5	3-7
Sodium Nitrite	7632-00-0	0.1-1
Triethanolamine	102-71-6	0.1-1
Sodium hydroxide	1310-73-2	0.1-1
Poly(ethylene oxide)	25322-68-3	0.1-1
Phosphoric Acid	7664-38-2	0.1-1
Trisodium Nitrilotriacetate	5064-31-3	0.1-1

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST AID MEASURES

#### Description of first aid measures

5. FIRE-FIGHTING MEASURES		
Notes to Physician	Treat symptomatically.	
Indication of any immediate medical attention and special treatment needed		
Symptoms	Causes serious eye damage.	
Most important symptoms and effects, both acute and delayed		
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Inhalation	Remove to fresh air.	
Skin Contact	Wash skin with soap and water.	
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.	

#### 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

No information available.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx).

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.	
Other Information	FOR ALL TRANSPORTATION ACCIDENTS CALL INFOTRAC 1-352-323-3500 (International) / 1-800-535-5053 (North America).	
Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so.	
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 and transfer to properly labeled containers.	
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	Wear eye/face protection.
-------------------------	---------------------------

#### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place.
Incompatible Materials	Strong acids. Strong bases. Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethanolamine	TWA: 5 mg/m <sup>3</sup>	-	-
102-71-6			
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Phosphoric Acid	STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup>
7664-38-2	TWA: 1 mg/m <sup>3</sup>	(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
	-	(vacated) STEL: 3 mg/m <sup>3</sup>	STEL: 3 mg/m <sup>3</sup>

# Appropriate engineering controls

**Engineering Controls** Showers. Eyewash stations. Ventilation systems.

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

Eye/Face Protection	Tight sealing safety goggles.
Skin and Body Protection	Wear suitable gloves. Wear suitable protective clothing.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Citrus fragrance

Not determined

# General Hygiene Considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Clear blue liquid Clear blue	Odor Odor Threshold
<u>Property</u> pH	<u>Values</u> 11.0-11.4 (conc.) 10.3-10.7 (1:16 dilution)	Remarks • Method
Melting point / freezing point Boiling point / boiling range Flash point	Not determined 100 °C / 212 °F	
Evaporation Rate Flammability (Solid, Gas)	1.0 Liquid-Not applicable	(n-BuAc =1)
Upper flammability or explosive limits	Not applicable	
Lower flammability or explosive limits	Not applicable	
Vapor Pressure Vapor Density	Not determined Not determined	
Relative Density Water Solubility	1.04 Mostly Soluble	
Solubility in other solvents Partition Coefficient	Not determined Not determined	
Autoignition temperature Decomposition temperature	Not determined Not determined	
Kinematic viscosity Dynamic Viscosity	Not determined	
Explosive Properties Oxidizing Properties	Not determined	

# **10. STABILITY AND REACTIVITY**

# Reactivity

Not reactive under normal conditions.

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

None under normal processing.

#### Hazardous Polymerization

Hazardous polymerization does not occur.

# Conditions to Avoid

None known based on information supplied.

#### **Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

#### Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	
Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tetrasodium	= 1658  mg/kg (Rat) $= 10  g/kg$ (	-	-
Ethylenediaminetetraacetate	Rat )		
64-02-8			
Polyethylene glycol octylphenyl	= 1700 mg/kg (Rat) = 4190 mg/kg	-	-
ether	(Rat)		
9036-19-5			
Sodium Nitrite	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat)4 h
7632-00-0			
Triethanolamine	= 4190 mg/kg (Rat)	> 16 mL/kg (Rat) > 20000 mg/kg	-
102-71-6		( Rabbit )	
Sodium hydroxide	140 - 340 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
1310-73-2			
Poly(ethylene oxide)	= 22 g/kg (Rat) = 28 g/kg (Rat)	> 20 g/kg (Rabbit)	-
25322-68-3			
Phosphoric Acid	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m³ (Rat)1 h
7664-38-2			
Trisodium Nitrilotriacetate	= 1100 mg/kg (Rat)	-	> 5 mg/L (Rat)4 h
5064-31-3			

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Please see section 4 of this SDS for symptoms.

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

Serious eye damage/eye irritation	Causes serious eye damage.
Carcinogenicity	Nitrate or nitrite ingested under conditions that result in endogenous nitrosation are considered IARC group 2A carcinogens. Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name ACGIH IARC NTP **OSHA** Sodium Nitrite Group 2A Х 7632-00-0 Triethanolamine Group 3 102-71-6 Trisodium Nitrilotriacetate Group 2B Х 5064-31-3

Legend

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

# Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS documentOral LD505,191.10mg/kg

ATEmix (inhalation-dust/mist) 268.91 mg/L

# **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Tetrasodium Ethylenediaminetetraacetate 64-02-8	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 Nitrite 7632-00-0		0.19: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 2.3: 96 h Pimephales promelas mg/L LC50 flow-through 0.65 - 1: 96 h Oncorhynchus mykiss mg/L LC50 static 20: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.092 - 0.13: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	
Triethanolamine 102-71-6	169: 96 h Desmodesmus subspicatus mg/L EC50 216: 72 h Desmodesmus subspicatus mg/L EC50	450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 1000: 96 h Pimephales promelas mg/L LC50 static 10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through	1386: 24 h Daphnia magna mg/L EC50
Sodium hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	
Poly(ethylene oxide) 25322-68-3		5000: 24 h Carassius auratus mg/L LC50	
Phosphoric Acid 7664-38-2		3 - 3.5: 96 h Gambusia affinis mg/L LC50	4.6: 12 h Daphnia magna mg/L EC50
Trisodium Nitrilotriacetate 5064-31-3	560 - 1000: 96 h Chlorella vulgaris mg/L EC50	175 - 225: 96 h Lepomis macrochirus mg/L LC50 static 560 - 1000: 96 h Oryzias latipes mg/L LC50 470: 96 h Pimephales promelas mg/L LC50 static 560 - 1000: 96 h Poecilia reticulata mg/L LC50 72 - 133: 96 h Oncorhynchus mykiss mg/L LC50 static 93 - 170: 96 h Pimephales promelas mg/L LC50 flow-through 114: 96 h Pimephales promelas mg/L LC50 252: 96 h Lepomis macrochirus mg/L LC50 560 - 1000: 96 h Poecilia reticulata mg/L LC50 semi- static 560 - 1000: 96 h Oryzias latipes mg/L LC50 semi-static	560 - 1000: 48 h Daphnia magna mg/L LC50

# Persistence/Degradability

Not determined.

#### **Bioaccumulation**

There is no data for this product.

# **Mobility**

Chemical name	Partition coefficient
Sodium Nitrite 7632-00-0	-3.7
Triethanolamine 102-71-6	-2.53

#### Other Adverse Effects

Not determined

# **13. DISPOSAL CONSIDERATIONS**

# Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### California Hazardous Waste Status

Chemical name	California Hazardous Waste Status
Sodium Nitrite	Toxic
7632-00-0	Ignitable
	Reactive
Sodium hydroxide	Toxic
1310-73-2	Corrosive
Phosphoric Acid	Corrosive
7664-38-2	

# 14. TRANSPORT INFORMATION Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT	Not regulated
	Not regulated
IMDG	Not regulated

# **15. REGULATORY INFORMATION**

#### International Inventories

Note

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Tetrasodium Ethvlenediaminetetraacetate	Х	Х	Х	Х	Х	Х	Х	Х
Polyethylene glycol octylphenyl ether	Х	Х		Х	Х	Х	Х	Х
Sodium Nitrite	Х	Х	Х	Х	Х	Х	Х	Х
Triethanolamine	Х	Х	Х	Х	Х	Х	Х	Х
Sodium hydroxide	Х	Х	Х	Х	Х	Х	Х	Х
Poly(ethylene oxide)	Х	Х	Х	Х	Х	Х	Х	Х
Phosphoric Acid	Х	Х	Х	Х	Х	Х	Х	Х
Trisodium Nitrilotriacetate	Х	Х	Х	Х	Х	Х	Х	Х

#### 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
- IECSC 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

#### US Federal Regulations

# **CERCLA**

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Nitrite	100 lb		RQ 100 lb final RQ
7632-00-0			RQ 45.4 kg final RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ
Phosphoric Acid	5000 lb		RQ 5000 lb final RQ
7664-38-2			RQ 2270 kg final RQ

# SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Nitrite	100 lb			Х
Sodium hydroxide	1000 lb			Х
Phosphoric Acid	5000 lb			Х

#### US State Regulations

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium Nitrite 7632-00-0	X	X	X
Triethanolamine 102-71-6	X	X	X
Sodium hydroxide 1310-73-2	X	X	X
Phosphoric Acid 7664-38-2	X	X	X
Trisodium Nitrilotriacetate 5064-31-3		X	

#### **16. OTHER INFORMATION** NFPA **Health Hazards** Flammability Instability **Special Hazards** Not determined 0 3 0 HMIS **Health Hazards** Flammability **Physical hazards Personal Protection** 3\* Not determined Not determined Not determined \* = Chronic Health Hazard Chronic Hazard Star Legend Issue Date: 27-Dec-2011 **Revision Date:** 06-May-2019 **Revision Note:** New formula

#### 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**