



Safety Data Sheet

Issue Date: 01-Apr-2014

Revision Date: 04-Dec-2017

Version 2

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

1.1. Product Identifier

SDS # BE-5099-EU
Product Code 5099
Product Name Buckeye Terminator

Contains Nonylphenol Ethoxylate, Di-n-alkyl Dimethyl Ammonium Chloride, Alkyl dimethyl benzyl ammonium chloride (C12-16), Alcohol

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

Recommended Use Cleaner Disinfectant Water based

1.3. Details of the Supplier of the Safety Data Sheet

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

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

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)

2.2. Label Elements

Product Identifier

Contains Nonylphenol Ethoxylate, Di-n-alkyl Dimethyl Ammonium Chloride, Alkyl dimethyl benzyl ammonium chloride (C12-16), Alcohol

**Signal Word**

Danger

Hazard statements

H314 - Causes severe skin burns and eye damage

Precautionary Statements - EU (§28, 1272/2008)

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

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

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

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
Di-n-alkyl Dimethyl Ammonium Chloride	Present	68424-95-3	3.5	Skin Corr. 1B (H314) (Self-Classification) Eye Dam. 1 (Self-Classification)	Not determined
Ethyl Alcohol	Present	64-17-5	1	Flam. Liq. 2 (H225)	Not determined

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

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical Name	CAS No	SVHC candidates
Nonylphenol Ethoxylate	127087-87-0	X

Section 4: FIRST AID MEASURES

4.1. Description of 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 center or doctor/physician.

Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off all contaminated clothing and wash it before reuse. Immediately call a poison center or doctor/physician.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Immediately call a poison center or doctor/physician.
Ingestion	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor/physician.

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

Symptoms	Causes severe skin burns and eye damage. Mist or vapor inhalation can cause irritation to the nose, throat, and upper respiratory tract. Ingestion may cause nausea and headache.
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4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician	Treat symptomatically. If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage.
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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. Nitrogen oxides (NOx). Hydrogen chloride.

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

Ensure adequate ventilation.

For Emergency Responders

Use personal protection recommended in Section 8.

6.2. Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

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.

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

Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapours/spray.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. 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.

Packaging Materials

Rinse container before discarding.

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

Cleaner. Disinfectant. 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
Ethyl Alcohol 64-17-5	-	STEL: 3000 ppm STEL: 5760 mg/m ³ TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	STEL: 1000 ppm STEL: 1910 mg/m ³	TWA: 500 ppm TWA: 960 mg/m ³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Ethyl Alcohol 64-17-5	-	TWA: 1000 ppm	Skin STEL: 1900 mg/m ³ TWA: 260 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 1300 ppm STEL: 2500 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Ethyl Alcohol 64-17-5	STEL 2000 ppm STEL 3800 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 1000 ppm STEL: 1920 mg/m ³ TWA: 500 ppm TWA: 960 mg/m ³	TWA: 1900 mg/m ³	TWA: 500 ppm TWA: 950 mg/m ³ STEL: 625 ppm STEL: 1187.5 mg/m ³	STEL: 1000 ppm

8.2. Exposure Controls**Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Personal Protective Equipment

Eye/Face Protection	Splash goggles or 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	No protective equipment is needed under normal use conditions. If exposure limits are exceed or irritation is experienced, ventilation and evacuation may be required.

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

Physical state	Liquid		
Appearance	Clear green liquid	Odour	Mild Fragrance added
Colour	Clear green	Odour Threshold	Not determined
Property	Values	Remarks • Method	
pH	11.8-12.2 (conc.) 9.7-10.1 (1:64 dilution)		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	100 °C / 212 °F		
Flash Point	>93.3 °C / >200 °F	Tag Closed Cup (Water = 1)	
Evaporation Rate	1.0		
Flammability (Solid, Gas)	Liquid-Not Applicable		
Flammability Limits in Air			
Upper Flammability Limits	Not Applicable		
Lower Flammability Limit	Not Applicable		
Vapour Pressure	Not determined		
Vapour Density	Not determined		
Relative Density	1.01		
Water Solubility	Infinite		
Solubility(ies)	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidising Properties	Not determined		

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Not reactive under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

10.3. Possibility of Hazardous Reactions**Hazardous Polymerisation**

Hazardous polymerisation does not occur.

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to Avoid

Keep separated from incompatible substances. Keep out of reach of children.

10.5. Incompatible Materials

Chlorine bleach. Anionic detergents.

10.6. Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on Toxicological Effects****Acute Toxicity****Product Information**

Inhalation	Avoid breathing vapours or mists.
Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Ingestion	Do not ingest.

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

ATEmix (oral)	6,348.00 mg/kg
ATEmix (inhalation-dust/mist)	42.70 mg/L

Unknown Acute Toxicity

- 10.5 % of the mixture consists of ingredient(s) of unknown toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 10.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 10.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 10.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nonylphenol Ethoxylate	= 1310 mg/kg (Rat)		
Alkyl dimethyl benzyl ammonium chloride (C12-16)	= 426 mg/kg (Rat)		
Ethyl Alcohol	= 7060 mg/kg (Rat)		= 124.7 mg/L (Rat) 4 h

Skin corrosion/irritation	Not classified.
Serious eye damage/eye irritation	Not classified.
Sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethyl Alcohol		13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static	10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50

12.2. Persistence and Degradability

Not determined.

12.3. Bioaccumulative Potential

Chemical Name	Partition Coefficient
Ethyl Alcohol	-0.32

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

IMDG

14.1 UN/ID No	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride)
14.3 Hazard Class	8
14.4 Packing Group	II
14.5 Marine Pollutant	Not a marine pollutant

RID

14.1 UN/ID No	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride)
14.3 Hazard Class	8
14.4 Packing Group	II

ADR

14.1 UN/ID No	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride)
14.3 Hazard Class	8
14.4 Packing Group	II

IATA

14.1 UN/ID No	UN1760
14.2 Proper Shipping Name	Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride)
14.3 Hazard Class	8
14.4 Packing Group	II

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

France

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
Ethyl Alcohol 64-17-5	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.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (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
Di-n-alkyl Dimethyl Ammonium Chloride 68424-95-3 (3.5)	X	X	X	X	Present	X	X	Present
Ethyl Alcohol 64-17-5 (1)	X	X	X	X	Present	X	X	Present

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**

H225 - Highly flammable liquid and vapour

Legend

SVHC: Substances of Very High Concern for Authorisation:

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

Calculation method

Issue Date: 01-Apr-2014**Revision Date:** 04-Dec-2017**Revision Note:** Regulatory update.**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