

Safety Data Sheet

| Issue Date: 01-Apr-2014 | Revision Date: 14- | Sep-2017 | | Version 3 |
|--|--|-------------|------------|-------------------------|
| | 1. IDENTIFI | CATION | | |
| Product Identifier Product Name | Buckeye Terminator | | | |
| Other means of identification SDS # | BE-5099 | | | |
| Product Code Registration Number(s) UN/ID No | 5099 EPA Reg. No. 6836-75-559 UN1760 | | | |
| Recommended use of the chemica | | | | |
| Recommended Use | EPA registered disinfectant. | | | |
| Details of the supplier of the safety Supplier Address Buckeye International, Inc. 2700 Wagner Place Maryland Heights, MO 63043 USA Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr) | 1-314-291-1900 Transportation - INFOTRAC 1-800-535-5053 (North Ame Medical - (International) 1-65 | erica) | , | 03-0441 |
| | 2. HAZARDS IDE | NTIFICATION | | |
| Emergency Overview This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information. | | | | |
| Appearance Clear green liquid | Physical state | Liquid | Ode | or Mild Fragrance added |
| Classification_ | | | | |
| Skin corrosion/irritation | | | | Sub-category B |
| Serious eye damage/eye irritation | | | Category 1 | |
| <u>Signal Word</u> Danger | | | | |
| Hazard statements | | | | |

Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention 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 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a poison center or doctor/physician 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight-% |
|--|-------------|----------|
| Nonylphenol Ethoxylate | 127087-87-0 | 1.5-3.5 |
| Di-n-alkyl Dimethyl Ammonium Chloride | 68424-95-3 | 2.0-3.5 |
| Alkyl dimethyl benzyl ammonium chloride (C12-16) | 68424-85-1 | 1.0-2.5 |
| Ethyl Alcohol | 64-17-5 | 0.5-1.0 |

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

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 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. |

Most important symptoms and effects

| 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. |
|-------------------------------|--|
| Indication of any immediate n | nedical 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. Dermatitis or other pre-existing skin conditions may be aggravated by overexposure to this product. |

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Foam. Water.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustion products may be toxic.

Hazardous Combustion Products Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride.

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 | 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. See |
| | Section 12 for additional Ecological Information. |

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. |

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. Use personal protection recommended in Section 8. Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/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.

Packaging Materials

Rinse container before discarding.

Incompatible Materials

Chlorine bleach. Anionic detergents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------|----------------|---------------------------------------|-----------------------------|
| Ethyl Alcohol | STEL: 1000 ppm | TWA: 1000 ppm | IDLH: 3300 ppm |
| 64-17-5 | | TWA: 1900 mg/m ³ | TWA: 1000 ppm |
| | | (vacated) TWA: 1000 ppm | TWA: 1900 mg/m ³ |
| | | (vacated) TWA: 1900 mg/m ³ | - |

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

| Eye/Face Protection | Splash goggles or 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 | Refer to 29 CFR 1910.134 for respiratory protection requirements. |

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Information on basic physical and chemical properties

| Physical state Appearance Color | Liquid Clear green liquid Clear green |
|--|--|
| <u>Property</u> pH | <u>Values</u> 11.8-12.2 (conc.) 9.7-10.7 (1:64 dilution) |
| Melting Point/Freezing Point | Not determined |
| Boiling Point/Boiling Range | 100 °C / 212 °F |
| Flash Point | >93.3 °C / >200 °l |
| Evaporation Rate | 1.0 |
| Flammability (Solid, Gas) | Liquid-Not Applicable |
| Flammability Limits in Air | |
| Upper Flammability Limits | Not Applicable |
| Lower Flammability Limit | Not Applicable |
| Vapor Pressure | Not determined |
| Vapor Density | Not determined |
| Relative Density | 1.01 |
| Water Solubility | Infinite |
| Solubility in other solvents | Not determined |
| Partition Coefficient | Not determined |
| Auto-ignition Temperature | Not determined Not determined |
| Decomposition Temperature Kinematic Viscosity | Not determined |
| Dynamic Viscosity | Not determined |
| Explosive Properties | Not determined |
| Oxidizing Properties | Not determined |
| | Not determined |

Odor **Odor Threshold** Mild Fragrance added Not determined

Remarks • Method

Tag Closed Cup (Water = 1)

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

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

Incompatible Materials

Chlorine bleach. Anionic detergents.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| Product Information | |
|---------------------|----------------------------------|
| Eye Contact | Causes severe eye damage. |
| Skin Contact | Causes severe skin burns. |
| Inhalation | Avoid breathing vapors or mists. |
| Ingestion | Do not ingest. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|--------------------|-------------|-----------------------|
| Nonylphenol Ethoxylate 127087-87-0 | = 1310 mg/kg (Rat) | - | - |
| Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1 | = 426 mg/kg (Rat) | - | - |
| Ethyl Alcohol 64-17-5 | = 7060 mg/kg (Rat) | - | = 124.7 mg/L (Rat)4 h |

Information on physical, chemical and toxicological effects

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

Carcinogenicity The ingredient in this product is only classified as a carcinogen when consumed as an alcoholic beverage in long-term studies.

| Chemical Name A | CGIH | IARC | NTP | OSHA |
|--------------------------|------|---------|-------|------|
| Ethyl Alcohol 64-17-5 | A3 | Group 1 | Known | Х |

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Numerical measures of toxicity

Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---------------|----------------------|----------------------------------|---------------------------------|
| Ethyl Alcohol | | 12.0 - 16.0: 96 h Oncorhynchus | 10800: 24 h Daphnia magna mg/L |
| 64-17-5 | | mykiss mL/L LC50 static 13400 - | EC50 2: 48 h Daphnia magna mg/L |
| | | 15100: 96 h Pimephales promelas | EC50 Static 9268 - 14221: 48 h |
| | | mg/L LC50 flow-through 100: 96 h | Daphnia magna mg/L LC50 |
| | | Pimephales promelas mg/L LC50 | |
| | | static | |

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

<u>Mobility</u>

| Chemical Name | Partition Coefficient |
|---------------|-----------------------|
| Ethyl Alcohol | -0.32 |
| 64-17-5 | |

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 |
|---------------|-----------------------------------|
| Ethyl Alcohol | Toxic |
| 64-17-5 | Ignitable |

14. TRANSPORT INFORMATION

Please see current shipping paper for most up to date shipping information, including Note exemptions and special circumstances. DOT **UN/ID No** UN1760 **Proper Shipping Name** Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride) **Hazard Class** 8 **Packing Group** Ш ΙΑΤΑ UN/ID No UN1760 **Proper Shipping Name** Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride) **Hazard Class** 8 Packing Group н

| r aoning croup | 11 |
|----------------------|---|
| IMDG | Not regulated |
| UN/ID No | UN1760 |
| Proper Shipping Name | Corrosive liquid, n.o.s. (Dialkyldimethylammonium chloride) |
| Hazard Class | 8 |
| Packing Group | ll |
| Marine Pollutant | Not a marine pollutant |

15. REGULATORY INFORMATION

International Inventories

| Chemical Name | TSCA | DSL/NDSL | EINECS/E LINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|------|----------|-------------------|---------|-------|---------|-------|------|
| Nonylphenol Ethoxylate | Х | Х | Х | Present | Х | Present | Х | Х |
| Di-n-alkyl Dimethyl Ammonium Chloride | Х | Х | Х | Present | Х | Present | Х | Х |
| Alkyl dimethyl benzyl ammonium chloride (C12-16) | Х | Х | х | Present | Х | Present | Х | Х |
| Ethyl Alcohol | Х | Х | Х | Present | Х | Present | 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

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

<u>SARA 313</u>

Not determined

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical Name | California Proposition 65 |
|-------------------------|---------------------------|
| Ethyl Alcohol - 64-17-5 | Carcinogen |
| | Developmental |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|--------------------------|------------|---------------|--------------|
| Water | | | Х |
| 7732-18-5 | | | |
| Ethyl Alcohol 64-17-5 | Х | X | Х |

EPA Pesticide Registration Number EPA Reg. No 6836-75-559

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Signal Word: Danger

Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective (rubber or chemical resistant) gloves and protective clothing. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse

Difference between SDS and EPA pesticide label

| | EPA | OSHA |
|-----------------------------------|--------------------------------|---------------------------|
| Signal Word | Danger | Danger |
| Skin corrosion/irritation | Causes skin burns | Causes severe skin burns |
| Serious eye damage/eye irritation | Causes irreversible eye damage | Causes serious eye damage |

16. OTHER INFORMATION

| NFPA HMIS | Health Hazards 3 Health Hazards Not determined | Flammability 1 Flammability Not determined | Instability 0 Physical hazards Not determined | Special Hazards Not determined Personal Protection Not determined |
|---|---|---|--|--|
| Issue Date: Revision Date: Revision Note: | 01-Apr-2 14-Sep- Regulate | | | |

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