



Safety Data Sheet

Issue Date: 27-Dec-2011

Revision Date: 04-Jul-2019

Version 2

1. IDENTIFICATION

Product identifier

Product Name Buckeye Castleguard

Other means of identification

SDS # BE-5125-CA

Product Code 5125
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Floor Finish, Water Based

Uses Advised Against No information available

Details of the supplier of the safety data sheet

Initial Supplier Identifier

United States Supplier Address

Buckeye International, Inc.
2700 Wagner Place
Maryland Heights, MO 63043 USA
1-314-291-1900

Emergency Telephone (24 hr) TRANSPORTATION - INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)
MEDICAL - 1-651-632-8956 (International) 1-800-303-0441 (North America)

2. HAZARDS IDENTIFICATION

Appearance White opaque solution **Physical state** Liquid **Odour** Sweet polymer scent No fragrance added

Classification

This chemical does not meet the hazardous criteria set forth by the 2015 WHMIS standards. However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Label elements

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical name | CAS No | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--------------------------|---------|----------|--|---|
| tributoxyethyl phosphate | 78-51-3 | 1-5 | - | - |

4. FIRST AID MEASURES

Description of first aid measures

| | |
|-----------------------|---|
| General advice | If exposed or concerned: Get medical advice/attention. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a doctor if irritation persists. |
| Skin contact | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a doctor. Take off contaminated clothing and wash it before reuse. |
| 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 doctor. Never give anything by mouth to an unconscious person. |

Most important symptoms and effects, both acute and delayed

Symptoms Contact will cause irritation and redness to exposed areas.

Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

5. FIREFIGHTING MEASURES

| | |
|---|--|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | Not determined. |
| Specific hazards arising from the chemical | Combustion products may be toxic. |
| Hazardous combustion products | Carbon oxides. Phosphorus oxides. Nitrogen oxides (NOx). |
| Explosion Data | |
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

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.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up with mop, wet/dry vac, or absorbent material. Rinse area with clear water and allow floor to dry before allowing traffic.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep container closed when not in use. Keep from freezing. Store at room temperature. Do not store above 110°F.

Incompatible materials Acids Strong alkalis Heavy metal salts

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

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 Risk of contact: Wear approved safety goggles.

Skin and body protection Rubber gloves. Wear suitable protective clothing.

Respiratory protection Ensure adequate ventilation, especially in confined areas.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|-----------------|--|
| Physical state | Liquid |
| Appearance | White opaque solution |
| Colour | White |
| Odour | Sweet polymer scent No fragrance added |
| Odour Threshold | Not determined |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|----------------------------------|-------------------------|
| pH | 7.4-7.8 (conc. and use dilution) | |
| Melting point / freezing point | Not determined | |
| Boiling point / boiling range | 100 °C / 212 °F | |
| Flash point | None | Tag Closed Cup |
| Evaporation Rate | 1.0 | (n-BuAc =1) |
| Flammability (Solid, Gas) | Liquid- Not Applicable | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | Not Applicable | |
| Lower flammability or explosive limits | Not Applicable | |
| Vapour Pressure | Not determined | |
| Vapour Density | Not determined | |
| Relative Density | 1.03 | |
| Water Solubility | Miscible in water | |
| Solubility in other solvents | 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. | |
| Oxidising properties | Not determined. | |

Other information

| | |
|------------------|----------------|
| Softening Point | Not determined |
| Molecular weight | Not determined |
| VOC Content (%) | Not determined |
| Liquid Density | Not determined |
| Bulk density | Not determined |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | Contact with acids liberates toxic gas. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Hazardous Polymerisation | Hazardous polymerisation does not occur. |
| Conditions to Avoid | Keep out of reach of children. |
| Incompatible materials | Acids. Strong alkalis. Heavy metal salts. |
| Hazardous decomposition products | Carbon oxides. Phosphorous oxides. Nitrogen oxides (NOx). |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information The information below is for repeated and prolonged contact in an occupational setting. It does not apply to normal product use

| | |
|---------------------|-----------------------------------|
| Eye contact | Avoid contact with eyes. |
| Skin contact | Avoid contact with skin. |
| Inhalation | Avoid breathing vapours or mists. |
| Ingestion | Do not ingest. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Acute toxicity

| | |
|--------------------------------------|-----------------|
| ATEmix (oral) | 64,968.90 mg/kg |
| ATEmix (inhalation-dust/mist) | 89.85 mg/L |

Unknown acute toxicity No information available

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|-----------------------|---|--------------------------------------|
| Di(ethylene glycol) ethyl ether 111-90-0 | = 10502 mg/kg (Rat) | = 9143 mg/kg (Rabbit) = 6 mL/kg (Rat) = 4200 µL/kg (Rabbit) | > 5240 mg/m ³ (Rat) 4 h |
| tributoxyethyl phosphate 78-51-3 | = 3 g/kg (Rat) | > 16 mL/kg (Rabbit) | > 6.4 mg/L (Rat) 4 h |

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

Carcinogenicity Based on available data, the classification criteria are not met.

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.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|----------------------|--|----------------------------|---|
| Di(ethylene glycol) ethyl ether 111-90-0 | - | 19100 - 23900: 96 h Lepomis macrochirus mg/L LC50 flow-through 10000: 96 h Lepomis macrochirus mg/L LC50 static 11400 - 15700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11600 - 16700: 96 h Pimephales promelas mg/L LC50 flow-through 13400: 96 h Salmo | - | 3940 - 4670: 48 h Daphnia magna mg/L EC50 |

| | | | | |
|-------------------------------------|---|--|---|---|
| | | gairdneri mg/L LC50 flow-through | | |
| tributoxyethyl phosphate 78-51-3 | - | 10.4 - 12.0: 96 h Pimephales promelas mg/L LC50 flow-through | - | - |

Persistence/Degradability No information available.

Bioaccumulation No information available.

Mobility .

| Chemical name | Partition coefficient |
|-------------------------------------|-----------------------|
| tributoxyethyl phosphate 78-51-3 | 3.65 - 4.78 |

Other Adverse Effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

REGULATORY INFORMATION

International Regulations

Ozone-depleting substances (ODS) Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

| Chemical name | TSCA | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|--------------------------|------|----------|-------------------|------|-------|------|-------|------|
| tributoxyethyl phosphate | X | X | X | X | X | X | X | X |

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

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | |
|-------------|--------------------------------------|------------------------------------|--|---|
| NFPA | Health Hazards 1 | Flammability 0 | Instability 0 | Special Hazards Not determined |
| HMIS | Health Hazards Not determined | Flammability Not determined | Physical hazards Not determined | Personal Protection Not determined |

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|---------|----------------------------------|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value |
| * | Skin designation |

Revision Date: 04-Jul-2019

Revision Note: Reformulation

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