

SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: WG10 - Tree and Shrub Spikes

Product Code: Not available.

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use: Fertilizer for trees and shrubs.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: Dysart dba Winchester Gardens
60 Elm Street,
Canal Winchester, OH 43110

Telephone Number: 1-888-837-0370

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: CHEMTREK 1-800-424-9300

Section 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL

Hazard class

Skin irritation 2
Serious eye irritation 2A
Specific target organ toxicity - Single exposure 3

2.2 LABEL ELEMENTS

Hazard Pictogram:



Signal Word: Warning

Hazard Statement: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Prevention: Wash hands thoroughly after handling. Wear protective gloves. Wear eye protection/face protection. Avoid breathing dust. Use only outdoors or in a well-ventilated area.

Response: If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

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2.3 ADDITIONAL INFORMATION

Hazards not otherwise specified: Not applicable.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

| Ingredient | CAS No | Wt. % |
|-------------------------------|-----------|----------|
| Ammonium hydrogen sulfate | 7783-20-2 | 60 - 100 |
| Ammonium dihydrogen phosphate | 7722-76-1 | 10 - 30 |
| Potassium chloride | 7447-40-7 | 10 - 30 |
| Sodium chloride | 7647-14-5 | 0.1 - 1 |

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention if irritation develops and persists.

Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

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Section 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: Not available.

5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Vacuum or sweep material and place in a disposal container.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Avoid contact with skin and eyes. Do not swallow. Good housekeeping is important to prevent accumulation of dust. Avoid generating and breathing dust. Handle and open container with care. Handle in well-ventilated areas. When using do not eat, drink or smoke. Avoid prolonged or repeated exposure. (See section 8)

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store locked up. (See section 10)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

| Ingredient | Occupational Exposure Limits | |
|-------------------------------|------------------------------|----------------|
| | OSHA-PEL | ACGIH-TLV |
| Ammonium hydrogen sulfate | Not available. | Not available. |
| Ammonium dihydrogen phosphate | Not available. | Not available. |
| Potassium chloride | Not available. | Not available. |
| Sodium chloride | Not available. | Not available. |

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8.2 EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipment:

Eye/Face Protection: Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face shield) protection.

Skin Protection:

Hand Protection: Chemical-resistant gloves.

Body Protection: Use personal protective equipment as required.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

General Health and Safety Measures: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Wash contaminated clothing before reusing.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|----------------|
| Appearance: | Tablet. |
| Color: | Green. |
| Odor: | Not available. |
| Odor Threshold: | Not available. |
| Physical State: | Solid. |
| pH: | Not available |
| Melting Point/Freezing Point: | Not available |
| Initial Boiling Point and Boiling Range: | Not available |
| Flash Point: | Not available |
| Evaporation Rate: | Not available |
| Flammability: | Not Flammable. |
| Lower Flammability/Explosive Limit: | Not available. |
| Upper Flammability/Explosive Limit: | Not available. |
| Vapor Pressure: | Not available. |
| Vapor Density: | Not available |
| Relative Density/Specific Gravity: | Not available |
| Solubility: | Not available |

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| | |
|--|----------------|
| Partition coefficient: n-octanol/water: | Not available. |
| Auto-ignition Temperature: | Not available. |
| Decomposition Temperature: | Not available. |
| Viscosity: | Not available. |
| Oxidizing Properties: | Not available. |
| Explosive Properties: | Not available. |

Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID

Heat. Incompatible materials.

10.5 INCOMPATIBLE MATERIALS

None known.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

Eye: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: May cause respiratory tract irritation.

Acute Toxicity:

| Ingredient | LC50 | LD50 |
|-------------------------------|--------------------------------|--|
| Ammonium hydrogen sulfate | Not available. | Oral 2000 mg/kg, rat |
| Ammonium dihydrogen phosphate | Not available. | Oral 5750 mg/kg, rat Dermal >7940 mg/kg, rabbit |
| Potassium chloride | Not available. | Oral 2600 mg/kg, rat |
| Sodium chloride | > 42 g/m ³ 1hr, rat | Oral 3 g/kg, rat Dermal >10 g/kg, rabbit |

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| Calculated overall Chemical Acute Toxicity Values | | |
|---|-------------------|----------------------|
| LC50 (inhalation) | LD50 (oral) | LD50 (dermal) |
| 10.5 mg/L 4hr, rat | 2258.9 mg/kg, rat | 8021.4 mg/kg, rabbit |

| Ingredient | Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)* |
|-------------------------------|---|
| Ammonium hydrogen sulfate | Not listed. |
| Ammonium dihydrogen phosphate | Not listed. |
| Potassium chloride | Not listed. |
| Sodium chloride | Not listed. |

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

| | |
|---------------------------------------|---|
| Skin Corrosion/Irritation: | Causes skin irritation. |
| Serious Eye Damage/Irritation: | Causes serious eye irritation. |
| Respiratory Sensitization: | Based on available data, the classification criteria are not met. |
| Skin Sensitization: | Based on available data, the classification criteria are not met. |
| STOT-Single Exposure: | May cause respiratory irritation. |
| Chronic Health Effects: | |
| Carcinogenicity: | Based on available data, the classification criteria are not met. |
| Germ Cell Mutagenicity: | Based on available data, the classification criteria are not met. |
| Reproductive Toxicity: | |
| Developmental: | Based on available data, the classification criteria are not met. |
| Fertility: | Based on available data, the classification criteria are not met. |
| STOT-Repeated Exposure: | Based on available data, the classification criteria are not met. |
| Aspiration Hazard: | Based on available data, the classification criteria are not met. |
| Other Information: | Not available. |

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic environment.

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Not available.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

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Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

Section 14: TRANSPORT INFORMATION

14.1 UN NUMBER

Not available.

14.2 UN PROPER SHIPPING NAME

Not available.

14.3 TRANSPORT HAZARD CLASS(ES)

Not available.

14.4 PACKING GROUP

Not available.

14.5 ENVIRONMENTAL HAZARDS

Not available.

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

14.7 SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

| SARA Title III | | | | |
|-------------------------------|---------------------------------|------------------------------|---------------------|-------------|
| Ingredient | Section 302 (EHS) TPQ (lbs.) | Section 304 EHS RQ (lbs.) | CERCLA RQ (lbs.) | Section 313 |
| Ammonium hydrogen sulfate | Not listed. | Not listed. | Not listed. | Not listed. |
| Ammonium dihydrogen phosphate | Not listed. | Not listed. | Not listed. | Not listed. |
| Potassium chloride | Not listed. | Not listed. | Not listed. | Not listed. |
| Sodium chloride | Not listed. | Not listed. | Not listed. | Not listed. |

State Regulations

California Proposition 65:

This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.

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Global Inventories:

| Ingredient | USA TSCA |
|-------------------------------|-------------|
| Ammonium hydrogen sulfate | Yes. |
| Ammonium dihydrogen phosphate | Yes. |
| Potassium chloride | Yes. |
| Sodium chloride | Yes. |

NFPA-National Fire Protection Association:

| | |
|--------------------|---|
| Health: | 2 |
| Fire: | 0 |
| Reactivity: | 0 |

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Date of Preparation: February 20, 2013

Version: 1.0

Revision Date: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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End of Safety Data Sheet