

# AgriTab Corporation

## Material Safety Data Sheet (MSDS)

Trade Name: A137 - AgSafe® 14-24-8 Pond Plant Food Spikes  
 EPA Reg. No.: None

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<b>SECTION 1</b>	<b>CHEMICAL PRODUCT AND COMPANY INFORMATION</b>
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<b>Manufacturer or Formulator:</b> AgriTab Corporation P.O. Box 70410 West Valley, UT 84170 1-801-969-6906	<b>Product Name:</b> AgSafe® Fertilizer Tablets <b>Common Name:</b> AgSafe® Fertilizer Tablets <b>Chemical Type:</b> Inorganic & Organic Chemical Fertilizer <b>Emergency:</b> 1-800-424-9300 Chemtrec <b>Emergency International:</b> 1-703-527-3887 Chemtrec
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<b>SECTION 2</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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<u>Chemical Name/Synonyms</u>	<u>C.A.S. No.</u>	<u>% WT</u>	<u>ACGIH TLV/TWA</u>	<u>OSHA PEL</u>
<b>Hazardous</b>				
None Listed				
<b>Non-Hazardous</b>				
This product is a blend of the following non-hazardous ingredients:				
		100%	10 mg/m3	15 mg/m3 (Nuisance Dust)
Urea or Coated* Urea	57-13-6	1-10	Not Listed	Not Available
Methylene Urea	9011-05-6	10-20	Not Listed	Not Available
Ureaform	9011-05-6	10-50	Not Listed	Not Available
Coated* Ammonium Phosphate	7722-76-1	30-60	10 mg/m3	15 mg/m3 (Nuisance Dust)
Monocalcium Phosphate	7758-23-8	1-20	2 mg/m3	15 mg/m3 (Nuisance Dust)
Coated* Potassium Sulfate	7778-80-5	1-10	10 mg/m3	15 mg/m3 (Nuisance Dust)
Potassium Magnesium Sulfate	14977-37-8	10-20	Not Listed	Not Available
Potassium Nitrate	7757-79-1	1-10	5 mg/m3	Not Available
Magnesium Oxide	1309-48-4	0.1-1	10 mg/m3	15 mg/m3 (Inhalable)
Sodium Borate	1330-43-4	0.1-1	Not Listed	Not Available
Ferrous Sulfate	7720-78-7	1-5	1 mg/m3	Not Available (Soluble, as Fe)
Iron Sucrate (Saccharated)	8047-67-4	1-10	10 mg/m3	15 mg/m3 (Nuisance Dust)
Manganese Sulfate	7785-87-7	0.1-2	Not Listed	Not Available
Sodium Molybdate	7631-95-0	<0.001	Not Listed	Not Available
Zinc Sulfate	7733-02-0	0.1-1	Not Listed	Not Available
Humic Shale (Leonardite)	129521-66-0	5-10	10 mg/m3	10 mg/m3 (Nuisance Dust)
Sea Kelp Extract (A. Nodosum)	7732-18-5	0.1-1	Not Listed	Not Available
Yucca Extract (Y. Schidigera)	90147-57-2	0.1-1	Not Listed	Not Available
Polyol Copolymers*	NA	0.1-15	Not Listed	Not Available

\*Trade Secret Proprietary Copolymers Binder Coating Blends, TLV/TWA & PEL – Not Established, Non-Toxic, Non-Hazardous, and Biodegradable.

**SECTION 3****HAZARDS IDENTIFICATION**

**Labeling Signal Word:** CAUTION

**Ingestion:** Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems.

**Inhalation:** Dusty conditions may cause mechanical aggravation to respiratory mucous membranes.

**Eye Contact:** Dusts from this product may cause particulate discomfort to eyes.

**Skin Absorption:** Not normally absorbed through the skin.

**Skin Contact:** Slight dermal abrasion is possible with prolonged contact, especially around cuffs and collars.

**Effects of Overdose:** Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of methemoglobinemia. Seek medical attention.

**SECTION 4****FIRST AID MEASURES**

**Ingestion:** If large amount is ingested, give 2-3 glasses of water and induce vomiting. Seek medical attention.

**Inhalation:** Remove to fresh air. Seek medical attention if condition persists.

**Eyes:** Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.

**Skin:** Wash with soap and water. Seek medical attention if condition persists.

**Notes to Physician:** Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

**SECTION 5****FIRE FIGHTING MEASURES**

**Flammable Properties:** Decomposes on heating.

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical, and chemical foam.

**Explosion Potential:** Dust clouds may be explosive.

**Explosive Properties:** No information available.

**Special Fire Fighting Procedures:** Select appropriate method to surround and extinguish fire.

**Unusual Fire and Explosion Hazards:** During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH<sub>3</sub>, NO<sub>x</sub>, SO<sub>x</sub>, PO<sub>x</sub> or CN.

**Protective Equipment for Firefighters:** In the event of fire, wear self-contained breathing apparatus.

**SECTION 6****ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear personal protective equipment.

**Environmental Precautions:** Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth. Prevent product from entering drains.

**Methods for Containment:** Use good housekeeping practices. Clean up promptly by sweeping or vacuum.

**Methods for Clean Up:** If material is uncontaminated, collect and reuse as recommended by product.

**SECTION 7****HANDLING AND STORAGE**

**Precautions to be taken in handling and storage:** Store in a cool, dry area. Prevent spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Keep out of the reach of children and pets.

**SECTION 8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ACGIH and OSHA Exposure:** See section 2 for details.

**Ventilation Protection:** Adequate ventilation.

**Respiratory Protection:** Approved dust respirator when necessary.

**Protective Clothing:** Normal clean work clothing.

**Eye Protection:** In dusty conditions, safety glasses with side shields or goggles may be necessary.

**General Hygiene Considerations:** Wash hands after handling the product.

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Solid

**Boiling Point:** Not Applicable

**Density:** 3 g/cm<sup>3</sup>

**Flashpoint:** Non-Flammable

**pH:** 7.2

**Appearance:** Blue Gray Tan Tablet

**Extinguishing Media:** Use media suitable to extinguish source of fire.

**Odor:** Slight

**Solubility in Water:** Soluble, 10-40% Insoluble

**% Volatiles (by volume):** Not applicable

**Vapor Pressure, mm Hg:** Not applicable

**Reaction with Water:** None

**SECTION 10****STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable

**Conditions to Avoid:** Extremely high temperatures. Damp or wet conditions.

**Incompatibility (Materials to Avoid):** Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals. Mixtures of methylene ureas with Isopropyl alcohol can be explosive.

**Hazardous Decomposition Products:** During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH<sub>3</sub>, NO<sub>x</sub>, SO<sub>x</sub>, PO<sub>x</sub> or CN.

**Hazardous Polymerization:** Will not occur.

**SECTION 11****TOXICOLOGY INFORMATION**

**Acute Toxicity:**

**Eye effects:** Contact with eyes may cause irritation.

**Skin effects:** may cause skin irritation and/or dermatitis

**Chronic Toxicity:**

**Carcinogenic effects:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	NTP	IARC	OSHA
Urea	Not Listed	Not Listed	Not Listed
Methylene Urea, C <sub>3</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>	Not Listed	Not Listed	Not Listed
Monoammonium Phosphate, NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	Not Listed	Not Listed	Not Listed
Potassium Sulfate, K <sub>2</sub> SO <sub>4</sub>	Not Listed	Not Listed	Not Listed
Monocalcium Phosphate, Ca(H <sub>2</sub> PO <sub>4</sub> ) <sub>4</sub> +H <sub>2</sub> O	Not Listed	Not Listed	Not Listed
Potassium Magnesium Sulfate, K <sub>2</sub> SO <sub>4</sub> +MgSO <sub>4</sub>	Not Listed	Not Listed	Not Listed
Potassium Nitrate, KNO <sub>3</sub>	Not Listed	Not Listed	Not Listed
Magnesium Oxide, MgO	Not Listed	Not Listed	Not Listed
Sodium Borate	Not Listed	Not Listed	Not Listed
Ferrous Sulfate, FeSO <sub>4</sub> +1H <sub>2</sub> O	Not Listed	Not Listed	Not Listed
Iron Sucrate, (Saccharated Iron Oxide)	Not Listed	Not Listed	Not Listed

**SECTION 11 (con.)****TOXICOLOGY INFORMATION**

Components	NTP	IARC	OSHA
Manganese Sulfate, MnSO <sub>4</sub>	Not Listed	Not Listed	Not Listed
Sodium Molybdate	Not Listed	Not Listed	Not Listed
Zinc Sulfate mono hydrate, ZnSO <sub>4</sub> +1H <sub>2</sub> O	Not Listed	Not Listed	Not Listed
Humic Shale (Leonardite)	Not Listed	Not Listed	Not Listed
Sea Kelp Extract (A. Nodosum)	Not Listed	Not Listed	Not Listed
Yucca Extract (Y. Schidigera)	Not Listed	Not Listed	Not Listed

**General Information:** Very low toxicity for humans and animals.

**Ingestion:** Health injuries are not known or expected under normal use.

**Inhalation:** Health injuries are not known or expected under normal use.

**Additional Information:**

	<u>Oral LD50(rat)</u>	<u>Dermal LD50 (rat)</u>	<u>Aquatic Fish 96-hr</u>	<u>Aquatic (other)</u>
Methylene Urea	14,300 mg/kg	None Listed	None Listed	None Listed
Monoammonium Phosphate	>2000 mg/kg	>5000 mg/kg	>86 mg/L (trout)	None Listed
Potassium Sulfate	6600 mg/kg	None Listed	680-3550 mg/L	720-890 mg/L
Potassium Nitrate	3750 mg/kg	None Listed	None Listed	None Listed
Ferrous Sulfate	319 mg/kg	155 mg/kg	None Listed	None Listed

*All toxicity data from TFI Product Testing Results.*

**SECTION 12****ECOLOGICAL INFORMATION**

**Ecotoxicity effects:** No data is available on the product itself.

**Persistence and degradability:** Inherently biodegradable. Non-persistent.

**Bioaccumulative potential:** Does not bioaccumulate.

**Mobility:** Water contaminating.

**Aquatic toxicity:** See section 11 for specific ingredients in large quantities. The product, with small amount of section 11 ingredients, when used as directed, will not harm fish and aquatic life. Beneficial to plant growth.

**Additional ecological information:** Do not apply directly into lakes, streams, rivers, and waterways. Must be applied into plant soil. The product contains very low levels of Molybdenum (Mo) that should not significantly affect any aquatic ecological life.

**SECTION 13****DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Pick up with a shovel and broom and use as a fertilizer by applying to soil using good agricultural and soil management practices.

**Contaminated Packaging:** Do not re-use empty containers. If empty, place in trash or offer for recycling if available.

**SECTION 14****TRANSPORT INFORMATION**

**DOT (Land):** Not DOT Regulated

**Hazard Class:** None

**Reportable Quantity (RQ):** None

**Labels Required:** None

**Placard:** None

**DOT (Air):** Not DOT Regulated

**DOT (Vessel):** Not DOT Regulated

**D.O.T. Number:** None

**Haz Waste No.:** None

**EPA Reg. No.:** None

**CAS No. Product:** None

**SECTION 14 (con.)****TRANSPORT INFORMATION**

**Additional Information:** Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

**SECTION 15****REGULATORY INFORMATION**

**Federal and State Regulations:  
CERCLA and SARA Title III:**

Components	CAS-No.	CERCLA/SARA 313	CERCLA/SARA 302
Urea	57-13-6	Not Listed	Not Listed
Methylene Urea, C <sub>3</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>	9011-05-6	Not Listed	Not Listed
Monoammonium Phosphate, NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	7722-76-1	Not Listed	Not Listed
Potassium Sulfate, K <sub>2</sub> SO <sub>4</sub>	7778-80-5	Not Listed	Not Listed
Monocalcium Phosphate, Ca(H <sub>2</sub> PO <sub>4</sub> ) <sub>4</sub> +H <sub>2</sub> O	7758-23-8	Not Listed	Not Listed
Potassium Magnesium Sulfate, K <sub>2</sub> SO <sub>4</sub> +MgSO <sub>4</sub>	14977-37-8	Not Listed	Not Listed
Potassium Nitrate, KNO <sub>3</sub>	7757-79-1	Not Listed	Not Listed
Magnesium Oxide, MgO	1309-48-4	Not Listed	Not Listed
Sodium Borate	1330-43-4	Not Listed	Not Listed
Ferrous Sulfate, FeSO <sub>4</sub> +1H <sub>2</sub> O	7720-78-7	1000 lb final RQ 454 kg final RQ	Not Listed
Iron Sucrate, (Saccharated Iron Oxide)	8047-67-4	Not Listed	Not Listed
Manganese Sulfate, MnSO <sub>4</sub>	7785-87-7	Not Listed	Not Listed
Sodium Molybdate	7631-95-0		
Zinc Sulfate mono hydrate, ZnSO <sub>4</sub> +1H <sub>2</sub> O	7733-02-0	1000 lb final RQ 454 kg final RQ	Not Listed
Humic Shale (Leonardite)	129521-66-0	Not Listed	Not Listed
Sea Kelp Extract (A. Nodosum)	7732-18-5	Not Listed	Not Listed
Yucca Extract (Y. Schidigera)	90147-57-2	Not Listed	Not Listed

**TSCA:** Product Not Listed.

**Proposition 65:** None of the ingredients, at the levels indicated (WT% section 2), in this product that are known to the State of California does not cause cancer, birth defects, and reproductive harm.

**NTP, IRAC, OSHA:** None of the ingredients in this product has been identified as a carcinogen by NTP, IRAC, or OSHA. See section 11 for details.

**Other Regulations:**

**Indication of Danger (EU):** This product does not have to be classified according to the EU regulations.

**EINECS:** Not listed

**Canada DSL:** No      **Canada NDSL:** No

**Other Classifications:**

**WHMIS:** This MSDS has been prepared accordingly to the hazard criteria of the Controlled Product Regulations (CPR) and the MSDS contains all the information required by the CPR.

**DSCL (EEC):** R36– Slight irritation to eyes and skin. S2- Keep out of reach of children. S46- If swallowed, seek medical advice immediately and show the product container label.

**SECTION 15 (con.)****REGULATORY INFORMATION****HMIS (USA):**

<b>Health:</b> 1-Slight	<b>Fire Hazard:</b> 1-Slight	<b>Reactivity:</b> 0-Least	<b>Personal Protection:</b> NA
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**NFPA (USA):**

<b>Health:</b> 1-Slight	<b>Flammability:</b> 1-Slight	<b>Reactivity:</b> 0-Least	<b>Specific Hazard:</b> NA
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**Hazard Rating: 0-Least; 1-Slight; 2-Moderate; 3-High; 4-Severe****Protective Equipment:** Dust mask when necessary.**SECTION 16****OTHER INFORMATION****Flash Point:** Non-flammable**Flammable Limits:****LOWER****UPPER****(% By Volume)**

N/A

N/A

**Autoignition Temperature:** Not Applicable

**Additional Information:** This MSDS document contains health, safety, disposal, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, storage, and disposal information indicated on the product container label.

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**MSDS Reference:** MSDSA137.pdf**Revision:** Dec 2012

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