



**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

**Product form:** Mixture  
**Product name:** GrainPower  
**Product code:** 00125

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**1.3. Details of the supplier of the safety data sheet**

PowerAG  
 2213 Leabrook Road, Lancaster PA 17601  
 1-800-842-2578 powerag.com

**1.4. Emergency telephone number**

**Emergency number:** 1-800-424-9300 ChemTrec

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

GHS-US classification  
**Acute Tox. 4(Oral):** H302  
**Skin Irrit. 2:** H315  
**Full text of H-statements:** See section 16.

**2.2. Label elements**

GHS-US labeling

**Hazard pictograms (GHS-US):**



GHS07

**Signal words (GHS-US):** Warning

**Hazard statements (GHS-US):**

**H302:** Harmful if swallowed.  
**H315:** Causes skin irritation .

**Precautionary statements (GHS-US):**

**P264:** Wash hands, forearms, and face thoroughly after handling.  
**P270:** Do not eat, drink, or smoke when using this product.  
**P280:** Wear protective gloves, protective clothing, eye protection, and face protection.  
**P301+P312:** If swallowed: Call a doctor or poison control center if ingested or eye contact has occurred if you feel unwell.  
**P302+P352:** If on skin: Wash with plenty of water.  
**P330:** Rinse mouth.  
**P332+P313:** If skin irritation occurs: Get medical advice/attention.  
**P362:** Take off contaminated clothing and was before reuse.  
**P501:** Dispose of contents/container to hazardous or special waste collection point, in accordance with local regional, national, and/or international regulation.

**2.3. Other hazards**

No additional information available.

**2.4. Unknown acute toxicity (GHS-US)**

Not applicable.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substance**

Not applicable.

**3.2. Mixture**

Name	Product identifier	%	GHS-US classification
Copper EDTA		5–20	Acute Tox. 4 (Oral), H302

**Full text of H-statments:** See section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**First-aid measures general:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid measures after inhalation:** Remove person to fresh air and keep comfortable for breathing. Allow breathing of fresh air. Allow the victim to rest.

**First-aid measures after skin contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

**First-aid measures after eye contact:** Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Rinse eyes with water as a precaution.

**First-aid measures after ingestion:** Rinse mouth. DO NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/injuries:** Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media:** Sand. Water spray. Dry powder. Foam. Carbon dioxide.

**Unsuitable extinguishing media:** Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

**Reactivity:** The product is non-reactive under normal conditions of use, storage, and transport.

### 5.3. Advice for firefighters

**Firefighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures:** Ventilate spillage area. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

**Protective equipment:** Do not attempt to take action without suitable protective equipment, Equip cleanup crew with proper protection. For further information refer to section 8: *Exposure controls/personal protection*.

**Emergency procedures:** Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up:** Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**Other information:** Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Precautions for safe handling:** Ensure good ventilation of the work station. Wear personal protective equipment.

Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

**Hygiene measures:** Do not eat, drink or smoke when using this product. Always wash hands after handling the product.



### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep only in the original container in a cool, well ventilated area. Keep container closed when not in use.

**Incompatible products:** Strong bases. Strong acids.

**Incompatible materials:** Sources of ignition. Direct sunlight.

**Storage temperature:**  $\geq 25$  (5 - 42) °C DO NOT FREEZE.

### 7.3. Specific end use(s)

No additional information available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### GrainPower

**ACGIH:** Not applicable.

**OSHA:** Not applicable.

#### Copper EDTA

**ACGIH:** Not applicable.

**OSHA:** Not applicable.

### 8.2. Exposure controls

**Appropriate engineering controls:** Ensure good ventilation of the work station.

**Personal protective equipment:** Avoid all unnecessary exposure.

**Hand protection:** Wear protective gloves.

**Eye protection:** Chemical goggles or safety glasses. Safety glasses.

**Skin and body protection:** Wear suitable protective clothing.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental exposure controls:** Avoid release to the environment.

**Other information:** Do not eat, drink, or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Physical state:** Liquid.

**Color:** Green.

**Odor:** Characteristic odor.

**Odor threshold:** No data available.

**pH:**  $\leq 2$

**Melting point:** Not applicable.

**Freezing point:**  $\leq 0$  °C

**Boiling point:**  $\geq 100$  °C

**Flash point:** None.

**Relative evaporation rate (butylacetate=1):** No data available.

**Flammability (solid, gas):** No data available.

**Explosive limits:** No data available.

**Explosive properties:** No data available.

**Oxidizing properties:** No data available.

**Vapor pressure:** No data available.

**Relative density:** No data available.

**Relative vapor density at 20 °C:** No data available.

**Density:**  $\geq 1.191$  g/ml

**Solubility:** Soluble in water.

Water: Solubility in water of component(s) of the mixture:

• boric acid: 4.8 g/100 ml • dissolvine e-zn-15: 100 g/100 ml • ammonium sulfate 77 g/100 ml

**Log Pow:** No data available.

**Log Kow:** No data available.

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity:** No data available.

**Viscosity, kinematic:** No data available.

**Viscosity, dynamic:** No data available.



## 9.2. Other information

VOC content:  $\leq 10$  g/l

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**Acute toxicity:** Oral: Harmful if swallowed

GrainPower

**ATE US (oral):** 500.000 mg/kg bodyweight

Copper EDTA

**LD50 oral rat:** 350 mg/kg

**LC50 inhalation rat (ppm):** 2000 ppm

**ATE US (oral):** 350.000 mg/kg bodyweight

**Skin corrosion/irritation:** Causes skin irritation. Not classified.

pH:  $\leq 2$

**Serious eye damage/irritation:** Not classified.

pH:  $\leq 2$

**Respiratory or skin sensitization:** Not classified.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Not classified.

**Specific target organ toxicity (single exposure):** Not classified.

**Specific target organ toxicity (repeated exposure):** Not classified.

**Aspiration hazard:** Not classified.

**Potential adverse human health effects and symptoms:** Based on available data, the classification criteria are not met.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology—general:** The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**Ecology—water:** Toxic to aquatic life.

### 12.2. Persistence and degradability

GrainPower

**Persistence and degradability:** Not established.

### 12.3. Bioaccumulative potential

GrainPower

**Bioaccumulative potential:** Not established.

### 12.4. Mobility in soil

No additional information available.

### 12.5. Other adverse effects

**Effect on the global warming:** No known ecological damage caused by this product.

**Other information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste treatment methods:** Dispose of contents/containers in accordance with licensed collector's sorting instructions.

**Waste disposal recommendations:** Dispose of contents/containers in hazardous or special waste collection point, an approved disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection site in accordance with local, regional, and/or international regulation, except for empty clean containers which can be disposed of as non hazardous waste.

**Ecology—waste materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT.

Not regulated for transport.

### Additional information:

**Other information:** No supplementary information available.

**ADR:** No additional information available.

**Transport by sea:** No additional information available.

**Air transport:** No additional information available.

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal regulations

#### Copper EDTA

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

**SARA Section 313—Emissions Reporting:** 14% Copper as found in Copper EDTA (N100 Copper Compounds)

### 15.2. International regulations

**CANADA:** No additional information available.

**EU-Regulations:** No additional information available.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]:** No additional information available.

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]:** Not classified.

**National regulations:** No additional information available.

### 15.3. US State regulations

No additional information available.

## SECTION 16: OTHER INFORMATION

**Other information:** None.

### Full text of H-statements:

**Acute Tox. 4 (Oral):** Acute toxicity (oral), Category 4.

**Skin Irrit. 2:** Skin corrosion/irritation, Category 2.

**H302:** Harmful if swallowed.

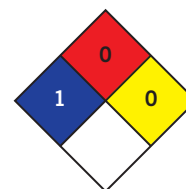
**H315:** Causes skin irritation.

**NFPA health hazard:** 1—Exposure could cause irritation but only minor residual injury even if no treatment is given.

**NFPA fire hazard:** 0—Materials that will not burn.

**NFPA reactivity:** 0—Normally stable, even under fire exposure conditions, and are not reactive with water.

**NFPA specific hazard:** None.



### HMIS III Rating

**Health:** 1 Slight Hazard—Irritation or minor reversible injury possible.

**Flammability:** 0 Minimal Hazard. Materials that will not burn.

**Physical:** 0 Minimal Hazard. Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

**Personal Protection:** C

C – Safety glasses, gloves, synthetic apron.

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*