

MILLER CHEMICAL & FERTILIZER, LLC

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: Miller Boro Zinc 10-10 **Chemical Name:** Mixture of soluble salts **Common Name, Synonym:** Soluble Fertilizer

Material Uses: Agricultural Fertilizer

Manufacturer/Manufactured For: Miller Chemical & Fertilizer, LLC

Phone: (717) 632-8921 FAX: (717) 646-1104 CHEMTREC: (800) 424-9300

Section 2 - Hazard Identification

2.1 Classification of the substance or mixture GHS Classification (29 CFR 1910.1200)

Acute Toxicity – Oral; Category 4
Reproductive Toxicity (Category 2)

2.2 Label elements

GHS Labeling Elements

Pictogram:

Signal Word: Warning

Hazard Statements: Suspected of damage fertility or the unborn child. Harmful

if swallowed.

Precautionary Statements: Wash face, hands and any exposed skin after

handling. Do not eat drink or smoke when using this product. If swallowed: Call

a Poison Center if you feel unwell. Rinse mouth.

Section 3 - Composition/Information of Ingredients

Ingredient Name	CAS Number	%
Zinc Sulfate	7446-19-7	20-30%
Boric Acid	10043-35-3	50-65%

PA Right to Know: This product contains proprietary ingredients

This product contains the following chemicals subject to the reporting requirements of Section 13Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 (the corresponding CAS numbers and typical percent by weight are also provided).

None



Section 4 - First Aid Measures

EYE CONTACT

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT

Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION

If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

Section 5 – Fire-Fighting Measures

Flash Point (METHOD):

Auto-Ignition:

Flammable Limits:

Not Available

Not Available

Extinguishing Media: Use alcohol foam, carbon dioxide, water fog, dry chemical, or

halon when fighting fires involving this material.

Special Fire Fighting Procedures: None currently known.

Unusual Fire and Explosion Hazards: Dust in sufficient concentration can result in an explosive

mixture in air. Minimize dust and open flame.

Fire Fighting Equipment: Wear self-contained breathing apparatus and protective suit.

Section 6 – Accidental Release Measures

Personal precautions

Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill

Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low pH) is a problem, neutralize



with hydrated lime, soda ash, or sodium bicarbonate. If alkalinity (high pH) is a problem neutralize with dilute acetic acid or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities.

Section 6 - Accidental Release Measures continued

Disposal Method

Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 - Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not

get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact

with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry

place. Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:

Mechanical: Mechanical ventilation is preferred.

Respiratory Protection: If exposure limits are exceeded, or if exposure may occur, use a

NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in

29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive

pressure-breathing apparatus should be readily available.

Eye Protection: Chemical goggles or face shield. Always wear eye protection when

working with chemicals. Never wear contact lenses when working with

chemicals.

Skin Protection: Rubber gloves. Clean protective body covering, rubber apron, and

rubber boots.

Work Hygienic Practices: Avoid contact with skin, eyes, and clothing. After handling this product,

wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown

in Section IV. Launder contaminated clothing before use.



Other Protective Equipment: Safety shower, eye wash fountain, and washing facilities should be

readily available.

Section 9 – Physical and Chemical Properties

Appearance: Solid white, lime green and or blue crystalline granules

Odor: Slight to Moderate pH (aqueous approx. 5% in DW): 4.0 – 7.0 @ 20°C

Boiling point/Boiling range:

Freeze Point:

Flash Point:

Vapor Pressure (mmHg):

Vapor Density (Air=1):

Not Applicable

Not Applicable

Not Determined

Not Determined

Solubility in Water: Soluble

Bulk Density: Varies with different grades

Evaporation Rate (NA=1):Percent Volatile by Volume:
Not Determined

Section 10 - Stability and Reactivity

Chemical Stability: Stable

Incompatibility: Strong oxidizing/reducing agents, sodium hypochlorite

and strong alkalis.

Conditions to Avoid: Extreme temperatures and wet/humid conditions.

Hazardous Decomposition or Byproducts: No decomposition expected under normal storage

conditions.

Hazardous Polymerization: Will not occur

Section 11- Toxicological Information

Toxicity Data:

Acute Eye Irritation: May Cause Irritation

Acute Dermal Effects: May Cause Irritation

Acute Dermal Irritation: Data not available

Acute Dermal Irritation: Data not available

Acute Oral Effects:May Cause IrritationMutagenicity:Data not availableAcute Inhalation Effects:May Cause IrritationTeratogenicity:Data not available

Section 12 – Ecological Information

Ecotoxicity: Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into drains, storm sewers, and ditches that lead to

waterways.

Aquatic Toxicity: Data not available Environmental Fate: Data not available



Section 13 - Disposal Considerations

Disposal: If uncontaminated, recover and reuse as product. If

contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Disposal Regulatory Requirements: Consult local, county, state, or federal regulatory agencies for

acceptable disposal procedures and disposal locations

Container Cleaning and Disposal: Consult local, county, state, or federal regulatory agencies for

acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:

WATER TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:

AIR TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:

OTHER AGENCIES:

SECTION 14 NOTES: This product is not considered a hazard



Section 15 - Regulatory Information

EPA Regulations:

Reportable Quantity - CERCLA: Not applicable

SARA Title III (EPCRA):

RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 - Other Information

Preparation Date: 09/29/2015

Prepared By: Miller Chemical Regulatory Compliance Officer

Revision Date: 01/27/16 **Revision Notes:** GHS Update

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET ("SDS") RELATES

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