

Hoof 2 Zinc Sol

Safety Data Sheet

Prepared According to Federal Register / vol.77, No. 58 / Rules and Regulations

Section 1: Identification

Product Name: Hoof 2 Zinc

Product Form: Mixture

Use of Substance/Mixture: Foot Bath Additive for Livestock

Chemical Name/Synonyms: Acid Blue 9, Sulfuric acid, Zinc Sulfate

Company: Sea 7 Technologies, Inc. 10214 Chestnut Plaza #177 Fort Wayne, In. 46814

Emergency Number: Chem-Trec 1-800-424-9300

Section 2: Hazard(s) Identification

2.1 Hazard Classification:

NON Hazardous under 1000 lbs.

Full text of hazard classes and H-statements: see section 16

2.2 Hazard Statements:

- H318 - Causes moderate eye damage
- H315 - Skin Irritant

2.3 Label Elements

GHS-US labeling

Pictograms: Hazardous Pictograms:



Signal Word (GHS US): Danger

2.4 Precautionary Statements

P280- Wear eye protection. Wear gloves and protective clothing to prevent skin irritation

P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P310 – Immediately call doctor or poison control.

P391- Collect spillage. P501- Dispose of contents/container in accordance with local, regional, national and international regulations

2.5 Description of other hazards: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.6 Unknown Acute Toxicity (GHS-US)

No data available

Section 3: Composition/ Information on Ingredients

3.1 Substance :

Not applicable

3.2 Mixture:

Chemical Name	Synonym	CAS#	Conc.
Sulfuric acid <1%, zinc sulfate 13%	Zinc Sulfate	CAS-No. 7733-02-0	13%
Acid Blue 9	Blue dye -Food grade	CAS-NO. 7758-99-8	<5%

Section 4: First-Aid Measures

4.1 First Aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show product label to medical adviser whenever possible).

After skin contact: Remove contaminated clothing to avoid prolonged contact with skin if allergic to sulfur or are experiencing skin irritation. Thoroughly rinse skin area(s) with water for several minutes if irritation occurs. If irritation persists, seek medical attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention for thorough flushing and eye-damage evaluation and/or care.

After inhalation: If symptoms occur, go into an open-air area and ventilate suspected area. If breathing difficulty persists, seek medical attention.

Symptoms/After swallowing: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2 Most Important Symptoms and Acute Delay:

Symptoms/injuries: Causes sever eye damage.

Symptoms/injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/injuries After Skin Contact: Prolonged exposure/contact may cause irritation. May cause allergic reaction in sensitive individuals.

Symptoms/injuries After Ingestion: Ingestion may cause adverse effects. May cause gastronomic irritation.

Symptoms/injuries: May cause permanent eye damage to the cornea, iris, or conjunctiva.

Chronic Symptoms: None known.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed and concerned, get medical advice and attention. If medical advice is needed bring product container or label at hand.

Section 5: Fire-Fighting Measures

5.1 Special Hazards for firefighting: Not considered flammable.

Explosion Hazards: Considered non explosive but may release hydrogen gas on contact with some metals.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.2 Suitable extinguishing agents: Water spray, dry chemical, foam, carbon dioxide. Alcohol-resistant foam.

Unsuitable extinguishing agents: Do not use a heavy water stream as it may cause fire to spread.

5.3 Special protective equipment for firefighters: Do not enter fire area without proper protective equipment including respirator. Use water or fog for cooling exposed containers and remove container if that can be done safely.

5.4 Advice for Firefighters:

Precautionary measures Fire – Exercise caution when fighting a chemical fire.

Instructions: Use water or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition.

Protection During Fighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Thermal decomposition generates: zinc oxides, oxides of zinc. Metal oxides. Irritating fumes.

Other Information: Do not allow run-off to enter drains or water courses.

Section 6: Accidental Release Measures

6.1 Personal precautions: General measures - Do not breathe vapor, mist or spray. Do not get in eyes. Avoid prolonged contact with skin or clothing.

Non-Emergency Personnel:

Use appropriate personal protective equipment (PPE)

Emergency Procedure: Evacuate unnecessary personnel.

For Emergency Personnel:

Provide cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2 Environmental Precautions:

Prevent entry to sewers and public waters. Avoid release to environment. Collect spillage.

6.3 Measures for environmental protection: Prevent entry to

Measures for cleaning/collecting: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Ventilate area. Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities for disposal. (see section 8 for exposure controls and personal protection and section 13 for disposal considerations.)

Section 7: Handling and Storage

7.1 Precautions for Handling: Always use protective eye-wear or goggles, and gloves. May be corrosive to metals upon prolonged contact. Wash hands and other exposed areas with mild soap and water after use before eating, drinking, or smoking. Avoid breathing vapors, mist, or spray. Do not get in eyes. Avoid prolong contact with skin as this may cause mild skin irritation. Spillage onto clothing damages clothing articles made from cotton or cotton blends.

7.2 Storage: Store in a dry, ventilated areas and away from incompatible materials and chemicals. Keep at temperatures above 45 degrees F to avoid product ingredient precipitation/fall out. Keep container closed when not in use. Always store product in its original container. Containers should be properly resealed and stored upright to prevent leakage.

7.3 Incompatible Products: Strong bases, oxidizers. Acetylene, Potassium Chlorate, Hydroxylamine, Magnesium, and reactive metals

Section 8: Exposure Controls/Personal Protection

NOTE: STABITROL: Trade Secret liquid

Stabitrol is a Trade Secret mixture that contains sulfur and may cause mild skin irritation to sensitive individuals.

Stabitrol is a Trade Secret mixture that can cause severe eye damage in its concentrate form.

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Zinc Sulfate	TWA (mg/m3)	0.1 mg/m3 (fume) 1 mg/m3 (dust and mist)	mg/mg3	0.2 mg/mg3 (fume)
Acid Blue 9	n/a	n/a	n/a	n/a
Stabitrol	n/a	n/a	n/a	n/a

General protective and hygienic measures: Protective chemical safety goggles, gloves, long-sleeves and long pants to prevent skin irritation from splashes. Wash hands before eating, drinking, or smoking.

Breathing equipment: If irritation occurs, wear approved respiratory protection should be worn.

Protection of hands: Wear gloves. Wash hands if exposed.

Eye protection: Always wear safety goggles when pouring concentrate product from container.

Environmental Protection: Avoid release to environment that is not in accordance to product label.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Appearance: Deep Blue

Odor: Mild Sweet
Odor threshold: n/a
pH: 1.0 pH *does not burn human or animal skin tissue
Melting point/melting range: n/a
Boiling point/boiling range: 220F
Flash point: n/a
Evaporation rate: n/a
Flammability: n/a
Upper/lower flammability or explosive limits: n/a
Auto ignition temperature: n/a
Danger of explosion: n/a
Vapor pressure: n/a
Vapor density: n/a
Relative density: 1.19
Solubility in/Miscibility with water: completely soluble in water

Section 10: Stability and Reactivity

Reactivity: Hazardous reactions will not occur under normal conditions.
Chemical stability: Stable under recommended handling and storage conditions (see section 7).
Conditions to avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials
Incompatible materials: strong bases, strong oxidizers, acetylene, potassium chlorate, hydroxylamine, magnesium.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decompositions products should not be produced.

Section 11: Toxicological Information

Acute toxicity: Not Classified
Zinc Sulfate LD50 Oral Rat 960 mg/kg
Potential routes of exposure/potential health effects
Skin: not classified
Eye: Serious eye damage can occur
Inhalation: not classified
Ingestion: not classified
Carcinogenic effects: not classified
Mutagenic effects: not classified
Reproductive toxicity: not classified
Sensitization: mild skin irritation. Severe eye damage
Target organs: not classified

Section 12: Ecological Information (non-mandatory)

Ecology – In General, Zinc sulfate is non toxic.

Ecotoxicity:

Sulfuric acid, zinc sulfate (7733-02-0)

Persistence and Degradability:

Persistence and Degradability	Not Established

Sulfuric acid, zinc sulfate (7733-02-0)

Persistence and Degradability	Not Established
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Bioaccumulative Potential:

Hoof 2 Zinc Sol	
Bioaccumulative Potential	Not established

Mobility in Soil: Not Established

Other Information: n/a

Section 13: Disposal Considerations (non-mandatory)

Waste Disposal Recommendations: Dispose in a safe manner in accordance with local, state, and federal regulations.

Ecology – Waste Materials: Avoid release into the environment

Section 14: Transport Information (non-mandatory)

In Accordance with DOT: Transportation Information

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. This material is a hazardous substance and regulated for transportation to, from, or within the U.S. in packages of 1000 lbs. or more. It is a non hazardous material in its liquid form.

In Packages less than 1000 lbs. this material is not Hazardous

Proper Shipping Name: Liquid, Zinc Sulfate

- **Hazard class:** UN3082
Environmentally hazardous substance, liquid, N.O.S. (Zinc Sulfate)
9
III
1000 lbs.
- **UN-No. DOT** 3082
- **DOT NA No.** UN3082
- **Hazardous Label:** 9- Environmentally hazardous over 1000 lbs
- **Packing Group:** III – minor danger

DOT Special Provisions: 49 CFR172.102

IB3 – Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H and 31H2) Composite 31HZ1 and (31HA2, 31HB2, 31HN2, 31HD2, and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to kPa at 50 C (1.1 bar at 122 F) or 130 kPa at 55 C (1.3 bar at 131 F) are authorized except for UN2672 (also see Special Provisions IP8 in Table 2 for UN2672).

T7 – 4 178.274(d)(2) Normal.....178.275(d)(3)

TP1 The maximum degree of filling must not exceed the degree of filling determined by the following:

Degree of filling = $97 / 1 + a(tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees Celsius of the liquid during filling.

TP28 – A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) LTQ Less than 1000 lbs 154

DOT Packaging Non Bulk (49 CFR 173.xxx) 203

DOT Packaging Bulk (49 CFR 173.xxx) 241

DOT Quantity Limitations Passenger Aircraft/rail
(49CFR173.xxx) 5 L

DOT Quantity limitations Cargo Aircraft only
(49 CFR 173.xxx) 60 L

DOT Vessel Stowage Location A – The material may be stowed “on deck” or “under deck and on a passenger vessel.

DOT Vessel Stowage Other: 40 – Stow “clear of living quarters”

Section 15: Regulatory Information (non-mandatory)

US Federal Regulations

SARA Section 355 (extremely hazardous substances): No additional information available

SARA Section 313 (specific toxic chemical listings): No addition information available

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): No additional information available

TSCA (Toxic Substances Control Act): No additional information available

Section 16: Other Information

SDS date of preparation/update: 02/2022