

DuraHoof

Section 1. Chemical Product and Company Information

Product Name : DuraHoof
Other means of identification : Not applicable
Recommended Use : Bovine footbath additive
Restrictions on Use : Reserved for industrial and professional use.

Supplier Information : AgroChem Inc.
26 Freedom Way
Saratoga Springs, NY 12866
(518) 226-4850

Date of issue : 05/15/2017
Revision Date : 04/03/19

EMERGENCY HEALTH INFORMATION: 1 (800) 424-9300
Outside United States and Canada CALL: +1 (703) 741-5500

Section 2. Hazards Identification

GHS Classification: Category

Acute Oral Toxicity: Category 4
Skin Corrosion/Irritation: Category 1A
Serious Eye Damage/Eye Irritation: Category 1
Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 1

GHS Label Element

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H314: Causes severe skin burns and eye damage
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Response:

P305 +P351+ P338+P310 -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

DuraHoof

medical advice/attention
P3002+P352+P312+P332+P313+P362: IF ON SKIN (or hair): Wash with Plenty of soap and water. Call a poison center or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
P301+P330+P314: IF SWALLOWED: Rinse mouth. Call a poison center or doctor/physician if you feel unwell.
P405+P403+P404: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Storage:

Disposal: P501: Dispose of contents/container in accordance with all local and national regulations

Other hazards : H410: Very toxic to aquatic life with long lasting effects

Section 3. Composition / Information on Ingredients

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Copper Sulfate, Pentahydrate	7758-99-8	18-20
Water	7732-18-5	65-70
Trade secret	proprietary	—

In case of eye contact : Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

In case of skin contact : Wash with Plenty of soap and water. Call a poison center or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

If swallowed : Rinse mouth. Call a poison center or doctor/physician if you feel unwell.. DO NOT INDUCE VOMITING.

If inhaled : Remove to fresh air.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

See toxicological information (Section 11)

DuraHoof**Section 5. Fire-Fighting Measures**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂ or water spray
- Unsuitable extinguishing media* : *If water is used as an extinguishing media care should be taken to keep such water out of streams or other bodies of water.*
- Specific hazards during fire fighting : Not determined
- Hazardous combustion products : Copper sulfate solution does not burn nor will it support combustion.
- Fire / Explosion Hazards: : Fine particles (such as dust and mists) may fuel fires/explosions.
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved and full protective gear.

Section 6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures : Use protective equipment as required.
- Environmental precautions : Do not allow contact with soil, surface or ground water. Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section 7. Handling and Storage

- Advice on safe handling : Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled

DuraHoof

containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Solutions of copper sulfate can be corrosive to steel. Store in plastic or glass.

Storage temperature < 50 °C/122 °F

Incompatible Materials: Potentially aluminum powders, acetylene gas, hydroxylamine, magnesium.

Section 8. Exposure Controls / Personal Protection**Control Parameters**

Refer to available public information for specific member state Occupational Exposure Limits.

Copper Sulfate, Pentahydrate

ACGIH: Threshold Limit Value (TWA) 0.2 mg/m³ (fume); 1 mg/m³;(dusts & mists)

OSHA Threshold Limit Value (TWA) 0.1 mg/m³ (fume); 1 mg/m³;(dusts & mists)

NIOSH Threshold Limit Value (TWA) 0.1 mg/m³ (fume); 1 mg/m³;(dusts & mists)

Finland OEL - TWA 1 mg/m³

- Engineering measures : Engineering controls should be used as the primary means to control exposures such as dilution and local exhaust. Eye wash stations. Showers
- Personal protective equipment : Wear proper personal protective equipment (PPE).
- Eye protection : Safety goggles / face protection
- Hand protection : Wear impervious gloves if skin contact is possible.
- Skin protection : Wear impervious protective clothing to prevent skin contact.
- Respiratory protection : Ensure adequate ventilation, especially in confined areas.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties

- Appearance : Liquid
- Color : Clear, Blue
- Odor : None
- pH : < 0.5, 100%
- Flash point : Not applicable
- Odor Threshold : No data available
- Melting point/freezing point : -18°C
- Initial boiling point and boiling range : >116°C

DuraHoof

Evaporation Rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Specific Gravity	: 1.179 @ 25C/77F
Water solubility	: Soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

Section 10. Stability and Reactivity

Reactivity	/not Reactive under normal conditions
Chemical stability	Stable under normal conditions.
Possibility of Hazardous	None under normal processing
Conditions to Avoid	Keep away from children. Metals Strong alkalis Reducing agents

Incompatible Materials: Possibly aluminum powders, acetylene gas, hydroxylamine, magnesium.

Hazardous Decomposition Products: None under normal conditions

DuraHoof**Section 11. Toxicological Information****Irritation / Sensitization: (Study Type, Species, Severity)**

Information on likely routes of exposure

Eye contact: Causes serious eye damage.

Skin contact: Harmful in contact with skin

Inhalation: Do not inhale

Ingestion: Harmful if swallowed.

Copper Sulfate Oral LD50 = 482/mg/kg (Rat) Dermal LD50 20mg/kg Inhalation LC50 No data

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

Section 12. Ecological Information

Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided. Very toxic to aquatic life with long lasting effects.

Toxicity:**Aquatic Toxicity: (Species, Method, End Point, Duration, Result)****Copper Sulfate, Pentahydrate**

Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 0.66 - 1.8 mg/L

Daphnia magna (Water Flea) EC50 48 Hours 0.147 - 0.227 mg/L

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : No data available

DuraHoof
Section 13. Disposal Considerations

Waste Treatment : Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered.. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

Section 14. Transport Information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 3264
 Description of the goods : Corrosive liquid, acidic, inorganic, n.o.s. (contains cupric sulfate)
 Class : 8
 Packing group : III
 Environmentally hazardous : Marine Pollutant (contains Copper Sulfate, pentahydrate)

For small quantities packed in combination packaging, exceptions may apply. The marine pollutant information is necessary only for non-bulk shipments by vessel (IMDG), or for bulk shipments in any mode of transport. Please refer to the applicable dangerous goods regulations for additional information.

Section 15. Regulatory Information
US Federal Regulations
CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA RQ	Reportable Quantity (RQ)
Cupric Sulfate 7758-98-7	10 lbs.	10 lbs.	10 lbs.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Cupric sulfate	7758-98-7	25	1.0

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Cupric Sulfate 7758-98-7		X		

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

DuraHoof
California Proposition 65

This product contains chemicals known to the State of California that cause cancer and birth defects.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsyl
Copper sulfate 7758-98-7	X	X	X

Section 16. Other Information
NFPA
Health Hazards
Flammability
Instability
Special Hazards

1

0

0

Not determined

HMIS
Health Hazards
Flammability
Physical Hazards
Personal Protection

1

0

0

Not determined

Issuing date : 4/04/2019
 Version : 2
 Prepared by : RJD

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.