

SAFETY DATA SHEET

DuraHoof Organic

Section 1. Chemical Product and Company Information

Product Name : DuraHoof Organic
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

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

Hazard Statements

: Danger
: Causes severe skin burns and eye damage
Harmful if swallowed.
Very toxic to aquatic life with long lasting effects. Short Term: May be harmful if inhaled. (based on components)
Long Term: Occupational exposure to strong-inorganic-acid mists containing sulfuric acid is carcinogenic to humans.

Precautionary Statements

Prevention:

Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Wash hands thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid release to the environment

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

SAFETY DATA SHEET

DuraHoof Organic

Rinse skin with water/shower. Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
Collect spillage. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Storage:

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

Other hazards : None Known

Section 3. Composition / Information on Ingredients

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Copper Sulfate, Pentahydrate	7758-99-8	5 - 25
Sulfuric acid	7664-93-9	5 - 10
Inorganic salt	Proprietary	5 – 25

Section 4. First Aid Measures

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 : Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

If swallowed : In the event of swallowing this material, seek immediate medical attention. DO NOT INDUCE VOMITING.

If inhaled : Remove to fresh air and keep patient at rest. Seek medical attention immediately.

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)

Section 5. Fire-Fighting Measures

SAFETY DATA SHEET

DuraHoof Organic

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<i>Unsuitable extinguishing media</i>	:	<i>None known.</i>
Specific hazards during fire fighting	:	Formation of toxic gases is possible during heating or fire. Toxic or corrosive gases including oxides of carbon and oxides of sulfur
Hazardous combustion products	:	
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. In the event of fire and/or explosion do not breathe fumes.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. Minimize exposure.
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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.
Additional Consideration for Large Spills:	:	Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

Section 7. Handling and Storage

Advice on safe handling	:	Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash
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SAFETY DATA SHEET

DuraHoof Organic

thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls..

Conditions for safe storage

Keep out of reach of children. Store in suitable labeled containers. Store tightly covered away from heat, acids, bases, and oxidizers. Protect from freezing.

Storage temperature

< 50 °C/122 °F

Incompatible Materials:

Metals Strong alkalis Reducing agents

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

Finland OEL - TWA 1 mg/m³

Sulfuric acid

ACGIH Threshold Limit Value (TWA) 0.2 mg/m³

Australia STEL 3 mg/m³

Australia TWA 1 mg/m³

Austria OEL - MAKs 0.1 mg/m³ 1 mg/m³

Belgium OEL - TWA 1 mg/m³

Revision date: 29-May-2014

Bulgaria OEL - TWA 0.05 mg/m³

Cyprus OEL - TWA 0.05 mg/m³

Czech Republic OEL - TWA 1 mg/m³ 0.05 mg/m³

Denmark OEL – TWA 0.05 mg/m³

Estonia OEL - TWA 0.05 mg/m³

Finland OEL - TWA 0.05 mg/m³

France OEL – TWA 0.05 mg/m³

Germany - TRGS 900 - TWAs 0.1 mg/m³

Germany (DFG) – MAK 0.1 mg/m³

Greece OEL - TWA 0.05 mg/m³

Hungary OEL - TWA 0.05 mg/m³

Ireland OEL - TWAs 1 mg/m³

Japan - OELs - Ceilings 1 mg/m³

Latvia OEL - TWA 0.05 mg/m³

Lithuania OEL - TWA 0.05 mg/m³

SAFETY DATA SHEET

DuraHoof Organic

Luxembourg OEL - TWA 0.05 mg/m³
Malta OEL - TWA 0.05 mg/m³
Netherlands OEL - TWA 0.05 mg/m³
Vietnam OEL - TWAs 1 mg/m³
OSHA - Final PELs - TWAs: 1 mg/m³
Poland OEL - TWA 1 mg/m³ 0.05 mg/m³
Portugal OEL - TWA 0.2 mg/m³
Romania OEL - TWA 0.05 mg/m³
Slovakia OEL - TWA 0.1 mg/m³
Slovenia OEL - TWA 0.05 mg/m³
Spain OEL - TWA 0.05 mg/m³
Sweden OEL - TWAs 0.1 mg/m³
Switzerland OEL - TWAs 0.1 mg/m³

Inorganic salt

Latvia OEL - TWA 10 mg/m³
Ireland OEL - TWAs 1 mg/m³
Lithuania OEL - TWA 10 mg/m³

Exposure Controls

- Engineering measures : Engineering controls should be used as the primary means to control exposures. Keep airborne contamination levels below the exposure limits listed above in this section. General room ventilation is adequate unless the process generates dust, mist or fumes.
- Personal protective equipment Refer to applicable national standards and regulations in the selection and use of 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 : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section 9. Physical and Chemical Properties

SAFETY DATA SHEET

DuraHoof Organic

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
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	: 1.32 @ 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

Chemical stability
Possibility of Hazardous Reactions

Stable under normal conditions.

Oxidizing Properties: Oxidizer

Conditions to Avoid: Keep away from excessive heat and flames.
Alkalies Strong caustics

SAFETY DATA SHEET

DuraHoof Organic

Incompatible Materials: Metals Strong alkalis Reducing agents

Hazardous Decomposition

Products: Thermal decomposition can lead to release of irritating gases and vapours. Thermal decomposition products may include oxides of sulfur Copper oxides

Section 11. Toxicological Information

Irritation / Sensitization: (Study Type, Species, Severity)

Sulfuric acid

Eye Irritation Severe

Skin Irritation Severe

Carcinogen Status: Exposure to strong inorganic mists containing sulfuric acid may cause cancer by inhalation See below

Sulfuric acid

IARC: Group 1 (Carcinogenic to Humans)

OSHA: Listed

Product Level Toxicity Data

Acute Toxicity Estimate (ATE),

Oral ca. 1200 mg/kg

Section 12. Ecological Information

Environmental Overview: The environmental characteristics of this material have not been fully evaluated.

Releases to the environment should be avoided.

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Sulfuric acid

Daphnia magna (Water Flea) EC50 24 Hours 29 mg/L

Brachydanio rerio (Zebra fish) LC50 96 Hours > 500 mg/L

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

Section 13. Disposal Considerations

SAFETY DATA SHEET

DuraHoof Organic

Waste Treatment : Waste may be classified as hazardous due to the ph/corrosivity. Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Communityspecific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. 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

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications

WHMIS hazard class:

Class E

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR



Copper Sulfate, Pentahydrate

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 Not Listed

Australia (AICS): Present

EU EINECS/ELINCS List Not Listed

SAFETY DATA SHEET

DuraHoof Organic

Sulfuric acid

CERCLA/SARA 313 Emission reporting 1.0%
CERCLA/SARA Hazardous Substances 1000 lb
and their Reportable Quantities: 454 kg
CERCLA/SARA - Section 302 Extremely Hazardous TPQs 1000 lb
CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs 1000 lb
California Proposition 65 carcinogen initial date 3/14/03
Inventory - United States TSCA - Sect. 8(b) Present
REACH - Annex IV - Exemptions from the obligations of Register: Present
CERCLA/SARA 313 Emission reporting
EU EINECS/ELINCS List 231-791-2
Australia (AICS): Present
Standard for the Uniform Scheduling for Drugs and Poisons: Schedule 6
EU EINECS/ELINCS List 231-639-5

Inorganic salt

CERCLA/SARA 313 Emission reporting Not Listed
California Proposition 65 Not Listed
Inventory - United States TSCA - Sect. 8(b) Present
Australia (AICS): Present
EU EINECS/ELINCS List 231-820-9

Water

CERCLA/SARA 313 Emission reporting Not Listed
California Proposition 65 carcinogen initial date 3/14/03
California Proposition 65 Not Listed
Inventory - United States TSCA - Sect. 8(b) Present
Australia (AICS): Present
Inventory - United States TSCA - Sect. 8(b) Present
REACH - Annex IV - Exemptions from the obligations of Register: Present
CERCLA/SARA 313 Emission reporting **EU EINECS/ELINCS List** 231-791-2

Section 16. Other Information

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage
Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed
Skin corrosion/irritation-Cat.2; H315 - Causes skin irritation
Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation
Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life
Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment
C - Corrosive

R22 - Harmful if swallowed.
R35 - Causes severe burns.
R36/38 - Irritating to eyes and skin.

SAFETY DATA SHEET

DuraHoof Organic

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Issuing date : 4/15/2017
Version : 1
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.