

SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID: Rhizo Life War Horse
Product Name: Rhizo Life War Horse
Revision Date: Oct 05, 2023
Version: 1.0
Manufacturer's Name: AgVent LLC
Address: 1231 E 1420 N Richfield, ID, US, 83349
Emergency Phone: +1 (208) 401-6631
Information Phone Number: +1 (208) 401-6631
Fax:
Product/Recommended Uses: Agriculture fertilizer - Soil Amendment

Date Printed: Oct 10, 2023
Supersedes Date: N.A.
Distributor's Name:
Address:
Distributor's Phone:
Distributor's Emergency:

SECTION 2) HAZARDS IDENTIFICATION

Classification

Carcinogenicity - Category 1A

Specific Target Organ Toxicity - Repeated Exposure - Category 1

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Pictograms



Signal Word

Danger

Hazardous Statements - Health

H350 - May cause cancer

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing, eye protection/face protection.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

Precautionary Statements - Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P314 - Get Medical advice/attention if you feel unwell.

Precautionary Statements - Storage

P405 - Store locked up.

Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulations.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

| CAS | Chemical Name | % By Weight |
|--------------|----------------------|-------------|
| 0129521-66-0 | HUMATES (LEONARDITE) | 50% - 60% |
| 0001317-65-3 | CALCIUM CARBONATE | 10% - 20% |
| 0010103-46-5 | PHOSPHATE ROCK | 20% - 30% |
| 0014808-60-7 | SILICA, CRYSTALLINE | 0.00% - 2% |

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

Get Medical advice/attention if you feel unwell.

If exposed/If you feel unwell/If concerned:

Call a POISON CENTER/doctor.

Eye Contact

Gently brush product off face.

Do not rub eyes.

Let the eyes water naturally for a few minutes.

Look right and left, then up and down.

If particle/dust does not come out, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelids open.

If eye irritation persists:

Get medical advice/attention.

Do not attempt to manually remove anything from the eyes.

Skin Contact

IF exposed or concerned:

Get medical advice/attention.

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes.

Call a POISON CENTER/doctor if you feel unwell.

Wash contaminated clothing before re-use or discard.

Ingestion

Rinse mouth.

If exposed/If you feel unwell/If concerned:

Call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed

Prolonged and/or massive exposure to fine fraction crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica. May cause cancer.

Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire : Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use straight stream of water.

Specific Hazards in Case of Fire

Fire will produce irritating gases.

Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Evacuate persons not wearing protective equipment from area of spill until clean-up is complete. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Recommended Equipment

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

Personal Precautions

Do not breathe dust. Do not get on skin, eyes or clothing.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material and water from clean-up/firefighting from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up

Avoid raising dust. Safely collect powdered material and deposit in sealed containers for disposal. Ventilate and wash area after clean-up is complete

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored. All containers must be properly labelled.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

Storage Room Requirements

Store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Indoor storage should meet OSHA standards and appropriate fire codes. Empty containers retain residue and may be dangerous.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Wear Dust-proof goggles with side shields

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

| Chemical Name | ACGIH TWA (mg/m3) | ACGIH TWA (ppm) | ACGIH STEL (mg/m3) | ACGIH STEL (ppm) | ACGIH Carcinogen | ACGIH TLV Basis | ACGIH Notations | OSHA TWA (mg/m3) |
|---------------------|-------------------|-----------------|--------------------|------------------|------------------|---------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|
| CALCIUM CARBONATE | | | | | | | | [15]; [5 (a)]; |
| SILICA, CRYSTALLINE | 0.025 (R) | | | | A2 | Pulmonary fibrosis; lung cancer | A2 | [10 mg/m3 percent SiO ₂ +2 / 250 percent SiO ₂ +5 mppcf]; [30 mg/m3 percent SiO ₂ +2]; |

| Chemical Name | OSHA TWA (ppm) | OSHA STEL (mg/m3) | OSHA STEL (ppm) | OSHA Carcinogen | OSHA Skin designation | OSHA Tables (Z1, Z2, Z3) | NIOSH TWA (mg/m3) | NIOSH TWA (ppm) |
|---------------------|----------------|-------------------|-----------------|-----------------|-----------------------|--------------------------|-------------------|-----------------|
| CALCIUM CARBONATE | | | | | | 1 | 10,5a | |
| SILICA, CRYSTALLINE | a | | | | | [1,3]; [3]; | 0.05e | |

| Chemical Name | NIOSH STEL (mg/m3) | NIOSH STEL (ppm) | NIOSH Carcinogen |
|---------------------|--------------------|------------------|------------------|
| CALCIUM CARBONATE | | | |
| SILICA, CRYSTALLINE | | | 1 |

(C) - Ceiling limit, (R) - Respirable fraction, A2 - Suspected Human Carcinogen

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------------|----------------|
| Density VOC Less H2O and Exempts(lb/gal) | 0.00000 lb/gal |
| Density | 1.00000 lb/gal |
| Specific Gravity | 0.11983 |
| % HAPS | 0.00000% |
| Density HAPS | 0.00000 lb/gal |
| % VHAPS | 0.00000% |
| Density VHAPS | 0.00000 lb/gal |
| % Solids By Weight | 100.00000% |

| | |
|---------------------------------|--------------------------|
| Kinematic Viscosity | N/A |
| Kinematic Viscosity Temperature | N/A |
| Refractive Index | N/A |
| Appearance | Dark Brown/Gray granules |
| Odor Threshold | N/A |
| Odor Description | Slight, Earthy |
| pH | N/A |
| Water Solubility | N/A |
| Flammability | N/A |
| Flash Point Symbol | N/A |
| Flash Point | N/A |
| Viscosity | N/A |
| Lower Explosion Level | N/A |
| Upper Explosion Level | N/A |
| Vapor Pressure | N/A |
| Vapor Density | N/A |
| Freezing Point | N/A |
| Melting Point | N/A |
| Low Boiling Point | N/A |
| High Boiling Point | N/A |
| Auto Ignition Temp | N/A |
| Decomposition Pt | N/A |
| Evaporation Rate | N/A |
| Coefficient Water/Oil | N/A |

SECTION 10) STABILITY AND REACTIVITY

Stability

Stable under normal storage and handling conditions.

Conditions To Avoid

Avoid heat, sparks, flame and contact with incompatible materials

Hazardous Reactions/Polymerization

Will not occur.

Incompatible Materials

Strong bases, acids, and oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

Acute Toxicity

Based on available data, the classification criteria are not met.

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

May cause cancer

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization

Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation

Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Causes damage to organs through prolonged or repeated exposure.

Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

Chronic Exposure

0014808-60-7 SILICA, CRYSTALLINE

Prolonged inhalation of respirable crystalline silica dust can result in lung disease (i.e. silicosis and/or lung cancer). Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.

Potential Health Effects - Miscellaneous

0014808-60-7 SILICA, CRYSTALLINE

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury. WARNING: This chemical is known to the State of California to cause cancer.

0001317-65-3 CALCIUM CARBONATE

LD50 (oral, rat): 6450 mg/kg (10; unconfirmed)

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Based on available data, the classification criteria are not met.

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

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14) TRANSPORT INFORMATION

| | U.S. DOT Information | IATA Information |
|----------------------------|----------------------|-------------------|
| UN Number | Not Regulated | Not Regulated |
| UN proper shipping name | N/A | N/A |
| Transport Hazard class(es) | Not Applicable | Not Applicable |
| Packing group | Not Applicable | Not Applicable |
| Hazardous substance (RQ): | Not Applicable | |
| Environmental hazards | No Data Available | No Data Available |

| | | |
|--------------------------------------------------------------------|-------------------|-------------------|
| Special precautions for user | No Data Available | No Data Available |
| Transport in bulk according to Annex II of MARPOL and the IBC code | No Data Available | No Data Available |

SECTION 15) REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC less water and exempts: 0 g/l

VOC: 0%

VOC: 0 lb/gal

| CAS | Chemical Name | % By Weight | Regulation List |
|--------------|----------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0129521-66-0 | HUMATES (LEONARDITE) | 50% - 60% | SARA312, CA Proposition 65 Type Toxicity Cancer |
| 0001317-65-3 | CALCIUM CARBONATE | 10% - 20% | NDSL, SARA312, TSCA, MA Right To Know - MASSACHUSETTS RIGHT TO KNOW |
| 0010103-46-5 | PHOSPHATE ROCK | 20% - 30% | NDSL, SARA312, TSCA |
| 0014808-60-7 | SILICA, CRYSTALLINE | 0.00% - 2% | DSL, SARA312, IARC Carcinogen, NTP Carcinogen - National Toxicology Program Carcinogens, TSCA, CA Prop 65 - California Proposition 65, CA Prop 65 Type Toxicity Cancer - CA Proposition 65 Type Toxicity Cancer, MA Right To Know - MASSACHUSETTS RIGHT TO KNOW |



WARNING: This product can expose you to chemicals including SILICA, CRYSTALLINE, arsenic, cadmium, and lead, which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16) OTHER INFORMATION

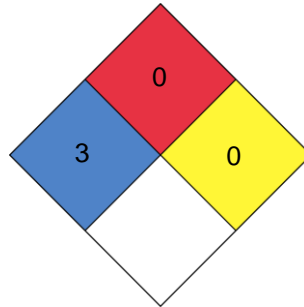
Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL - Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA - Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT - US Department of Transportation.

HMIS

| | | |
|---------------------|---|---|
| Health | * | 3 |
| FLAMMABILITY | | 0 |
| Physical Hazard | | 0 |
| Personal Protection | | |

NFPA



(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

Version 1.0:

Revision Date: Oct 05, 2022

First Edition.

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