

Material Safety Data Sheet

SECTION 1. GENERAL INFORMATION

COMPANY CERRO CORP. TEL. NO. (801) 377-9207
370 N. DRAPER LANE FAX NO. (801) 377-9234
PROVO, UT 84601
PRODUCT NAME BIOBURST™ HUMIC ACID **ISSUE DATE:** 08/22/01

SECTION 2. INGREDIENTS

Humic Acids CAS # 1415-93-6 (Naturally occurring mineral, Leonardite)

COMPONENT	% WEIGHT OR VOL	ACGIH TWA UNITS	ACGIN STEL UNITS	OSHA PEL UNITS
SiO ₂ CAS # 14808-60-7	< 2%	0.1 Mg/M ³	?	1.5 Mg/M ³

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications.

SECTION 3. PHYSICAL DATA

MOLECULAR WEIGHT: Unknown
BOILING POINT: Solid
MELTING POINT: Decomposes
VAPOR PRESSURE (mmHg at 20°C): Nil
VAPOR DENSITY (air = 1): N/A
SOLUBILITY IN WATER: c. 100%
pH (10 g/L H₂O): c. 9.5-10.0
EVAPORATION RATE (Butyl Acetate = 1): N/A
SPECIFIC GRAVITY: c. 0.8
% VOLATILE BY WEIGHT: 2-10% moisture
APPEARANCE AND ODOR: Black powder with no appreciable odor.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and method):

400° F Cleveland Cup Method

FLAMMABLE LIMITS (STP):

N/A

EXTINGUISHING MEDIA:

Water or CO₂

SPECIAL FIRE FIGHTING PROTECTIVE EQUIPMENT:

Do not stir up dust with hose streams.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Dust explosions may occur when finely divided particles are mixed with air in the presence of an ignition source. Avoid excessive accumulation of dust on floors, beams, or machinery. Ignition temperature is approximately 250-300°C.

SECTION 5. REACTIVITY DATA

STABILITY:

Stable.

CONDITIONS TO AVOID:

None known.

INCOMPATIBILITY (materials to avoid):

Caution necessary with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Sulfur dioxide (SO₂), carbon monoxide (CO), carbon dioxide (CO₂), and hydrocarbons possible.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 6. HEALTH HAZARD ASSESSMENT

GENERAL:

This health hazard assessment is based on information from commercial and scientific literature.

Exposure from routine use: None known.

Overexposure: Prolonged exposure to high levels of dust in air may cause delayed respiratory disease. Can cause eye irritation.

INGESTION:

Prolonged exposure to high levels of dust in air may cause delayed respiratory disease.

EYE CONTACT:

Can cause eye irritation.

SKIN CONTACT:

No skin irritation is likely.

SKIN ABSORPTION:

This product will probably not be absorbed through human skin.

FIRST AID PROCEDURES

SKIN:

Wash material off the skin with plenty of soap and water. If redness, itching or a burning sensation develops, get medical attention. Launder contaminated clothing before re-use.

EYES:

Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

INGESTION:

Rinse mouth with water. Immediately give one or two glasses of water to drink. After dilution, induce vomiting. Seek immediate medical attention. (Never give anything by mouth to an unconscious person.)

INHALATION:

Move to fresh air to relieve nuisance symptoms.

SECTION 7. TOXICITY DATA

ORAL:

This material is not orally toxic when tested as described in 29 CFR 1910.1200, Appendix A.

DERMAL:

This material is not a primary irritant and is not dermally toxic when tested as described in 29 CFR 1910.1200, Appendix A.

INHALATION:

This product contains a small amount of crystalline silica, which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded.

SECTION 7. TOXICITY DATA - continued

CARCINOGENICITY:

This product contains a small amount of crystalline silica, which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA.

OTHER PERTINENT DATA:

This material is not an eye irritant when tested as described in 29 CFR 1910.1200, Appendix A.

SECTION 8. SPECIAL PROTECTION INFORMATION**VENTILATION:**

Local: Exhaust recommended. Because of the explosive potential of organic dust when suspended in air, precautions should be taken to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motors is recommended.

Mechanical: Recommended.

Special: Use of explosion-proof equipment for dusty conditions.

Other: None.

RESPIRATORY PROTECTION:

Air purifying recommended for prolonged exposure.

PROTECTIVE CLOTHING:

As appropriate to prevent contact with body.

EYE PROTECTION:

Goggles recommended.

OTHER PROTECTIVE EQUIPMENT:

Protective gloves recommended.

SECTION 9. SPILL, LEAK, AND DISPOSAL PROCEDURES**SPILL:**

Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Spills or releases of this material do not currently trigger the emergency release reporting requirements under the federal Superfund Amendments and Reauthorization Act of 1986 (SARA). State and local laws may differ from federal law. Consult counsel for further guidance on your responsibilities under these laws.

DISPOSAL:

Customary plant procedures for industrial waste treatment. Follow all federal, state and local regulations.

CLEAN WATER ACT REQUIREMENTS:

None known.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS:

None known.

SECTION 10. REGULATORY INFORMATION**FDA:**

Not applicable

USDA:

Not applicable

CPSC:

Not applicable

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

CAS # 1415-93-6. Humic Acids are on the TSCA Chemical Substance Inventory.

DOT:

Non-regulated
Proper Shipping Name: None

Hazard Class: None

Label: None Required

SECTION 10. REGULATORY INFORMATION - continued

DOT:**Identification No.:** None**Other Precautionary Information:** None**EPA:**

Superfund Amendments and Reauthorization Act (SARA), Title III: Section 313, Supplier

Notification: Not applicable

SECTION 11. SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in a dry place and keep sealed until ready to use to prevent caking from moisture pick-up.

This material is biodegradable. Use caution when opening unvented containers of water solutions. Microbial activity may cause pressure accumulation.

OTHER PRECAUTIONS:

None known.

REGISTRATION/CERTIFICATIONS:

None.

All information, recommendations and suggestions appearing herein concerning this product are based upon tests or data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for the use of the product described herein. Since the actual use by others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use, the results to be obtained, or the safety and toxicity of the product; nor do we assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.
