

# MATERIAL SAFETY DATA SHEET

## I. PRODUCT IDENTIFICATION

MANUFACTURER'S NAME made by  
The BIOAG Corporation .  
EMERGENCY TELE. NO. 503-838-2467

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ADDRESS Carson City, Nevada

TRADE NAME **Humisolve-USA™**

SYNONYMS Potassium Humate classification # 2702.10.0000

## II. INGREDIENTS

MATERIAL OR COMPONENT: Ancient Humus deposits from fresh water cretaceous deposits.

DOT SHIPPING AND HAZARD CLASSIFICATION: n/a

### Analysis:

Humic acids soluble 57%  
total minerals 12%  
organic matter 70%

Non-hazardous. Keep dust below OSHA  
limit of 15 mg/m<sup>3</sup>.

Potassium 5%  
iron .45%  
moisture 10%  
Ph 8-9

## III. PHYSICAL DATA

Ph 8-9 MELTING POINT: n/a

SPECIFIC GRAVITY: VAPOR PRESSURE: n/a

VAPOR DENSITY (AIR=1) n/a SOLUBILITY IN H<sub>2</sub>O: 97%

% VOLATILES BY VOL. not known BULK DENSITY:

APPEARANCE AND ODOR Dark black particles & powder. No odor.

## IV. FIRE AND EXPLOSION DATA

FLASH POINT AUTOMATION  
CLEVELAND CUP METHOD >430F TEMPERATURE n/a

FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER: n/a UPPER: n/a

EXTINGUISHING MEDIA: water, foam, CO<sub>2</sub>

SPECIAL FIRE FIGHTING PROCEDURES: none

UNUSUAL FIRE AND EXPLOSION HAZARDS: none

## V. HEALTH HAZARD INFORMATION

### SYMPTOMS OF OVEREXPOSURE

INHALATION: Can cause irritation to mucus membranes and

respiratory passages. Non-systemic.  
SKIN CONTACT: None known.  
SKIN ABSORPTION: None known.  
EYE CONTACT: Potential mild irritation.  
INGESTION: None known. The LD<sub>50</sub> in acute oral toxicity studies is greater than 6,000 mg/kg. Large quantities can cause gastrointestinal irritation.

EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE: Expected toxicity hazard none to slight.  
CHRONIC OVEREXPOSURE: Expected toxicity hazard none to slight.

EMERGENCY AND FIRST AID PROCEDURES

EYE: Flush with water.  
SKIN: Flush with water.  
INHALATION: If discomfort ensues, seek medical attention.  
INGESTION: Due to the presence of iron salts, call a physician if large quantities are ingested.

SUSPECTED CANCER AGENT?

NO This product's ingredients are not found in the lists below.  
 YES \_\_\_ Federal OSHA \_\_\_ NTP \_\_\_ IARC \_\_\_ TX/OSHA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None known

NOTES TO PHYSICIAN Minimum iron content is .40%

**VI. REACTIVITY DATA**

STABILITY: Stable under normal warehouse conditions.

INCOMPATIBILITY (materials to avoid) solutions with Ph below 3.

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS None known

HAZARDOUS POLYMERIZATION None known

**VII. SPILL, LEAK AND DISPOSAL PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

RELEASED OR SPILLED: Sweep up. Wash with water. Non-toxic. Non-corrosive.

NEUTRALIZATION CHEMICALS n/a

WASTE DISPOSAL METHODS Follow all applicable federal, state and local regulations.

**VIII. SPECIAL PROTECTION INFORMATION**

VENTILATION REQUIREMENTS Provide local or general ventilation to keep dust below OSHA nuisance limit of 15 mg/m<sup>3</sup>.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY (SPECIFY IN DETAIL): NIOSH/MSHA approved respirator  
EYE: Safety goggles  
GLOVES: None required  
OTHER CLOTHING AND EQUIPMENT: None required

**IX. SPECIAL PRECAUTIONS**

PRECAUTIONARY STATEMENTS

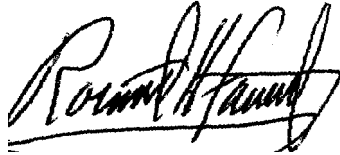
Do not breathe dust. Avoid contact with eyes.

OTHER HANDLING AND STORAGE EQUIPMENT

Store in a dry area. Keep out of reach of children.

PREPARED BY FAUST BIO-AGRICULTURAL SERVICES, INC. Dr. Robert H. Faust  
pres.

ADDRESS 6080 Wigrich Rd.; Independence, Or. 97351



certified true by \_\_\_\_\_ DATE:6/3/1998

All information, recommendations and suggestions appearing herein concerning this product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of this product. 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. This information is not to be construed as absolutely complete, since additional information may be necessary or desirable when exceptional conditions or circumstances exist or because of applicable laws or government regulations.