

MATERIALS SAFETY DATA SHEET

NABTA-HUMISOL

1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: NABTA-HUMISOL POTASSIUM HUMATE

Other Names: SOLUBLE HUMIC ACID, POTASSIUM HUMATE

CAS No.: 68514-28-3

Manufacturer NABTA Co., Ltd.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity

TOTAL HUMIC ACID $\geq 60\%$.

FULVIC ACID $\geq 5\%$.

K₂O $\geq 8\%$

CAS No. 68514-28-3

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is black-brown powder / Shiny flake

EFFECTS OF OVEREXPOSURE

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Inhalation: inhalation of dust may cause mild irritation

Chronic: No evidence of chronic effects found.

Skin: skin contact is not expected to cause irritation

Eyes: Causes mild physical irritation.

Swallowing: No data available

FIRST AID MEASURES

Eyes: Flush immediately with large amounts of water for 15-30 minutes. Call a physician immediately

Skin: Wash with plenty of soap and water for 15-30 minutes. Wash clothing before reuse. Seek medical attention if skin shows signs of irritation.

Inhalation: Remove to fresh air. If breathing has stopped, perform artificial respiration. Keep victim warm and at rest. Call a physician immediately.

Ingestion: If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents(milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Get immediate medical attention.

4.FIRST AID MEASURES

Ingestion: The mouth should be thoroughly washed out with water, if person is conscious, give large amounts of water. Do not induce vomiting. Get medical attention. Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.

Eyes: Flush eyes with large quantities of running water for a minimum of 15 minutes. If victim is wearing contact lenses, remove them. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. Do Not let victim urb eyes. Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation occurs.

Skin: Immediately wash with soap and water for a minimum of 15 minutes. Wash closthing before reuse and discard footwear which cannot be cleaned. Get immediate medical attention if irritation occurs.

Inhalation: Remove to fresh air, if breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration, Get medical attention.

5.FIRE-FIGHTING MEASURES

TEL: 916 813 8222 E-MAIL: nabta@nabta.com www.nabtaus.com
Address: 6955 BARTON ROAD, GRANITE BAY, CA95746, USA

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General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Flash Point: N/A

Autoignition Temperature: N/A

Flamability Limits: No data.

Fire Extinguishing Media: Use water spray, dry chemical, carbon dioxide or appropriate foam and etc.

NFPA Rating: (estimated) Health: 0; Flammability: 0; Instability: 0

6. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area where it is away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Potassium humate	none listed	none listed	none listed

OSHA Vacated PELs: Potassium Humate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

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Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PREPERTIES

Appearance: dark brown flakes

Formula: Unspecified.

Odor: not distinguishable

Vapor Pressure: Not Applicable

Vapor Density: Not Applicable

Boiling Point: N/A

Melting Point: N/A

Solubility in water: 200g/L g/l (25 deg C)

Specific Gravity: 0.6g/cm³

Flash Point Closed Cup: 300 deg C

pH: 9-10 (10g/L)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit: Not Applicable

Upper Explosion Limit: Not Applicable

Ignition Temperature: Not Applicable

Specific Heat Value: Not Applicable

Particle Size: Not Applicable

Volatile Organic Compounds (VOC) content: Not Applicable

Evaporation Rate: Not Applicable

Viscosity: Not Applicable

Percent Volatile: No Data

Octanol/Water partition coefficient: Not Applicable

Saturated Vapour Concentration: Not Applicable

Additional Characteristics: N/A

Flame Propagation/Burning Rate of Solid Materials: Not Applicable

Properties of materials that may initiate or contribute to fire intensity: Not Applicable

Potential for Dust Explosion Dust can form explosive mixtures with air.

Reactions that Release Flammable Gases: Not Applicable

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Fast or Intensely Burning Characteristics: Not Applicable

Non-flammables that could contribute unusual hazards to a fire: Not Applicable

Release of invisible flammable vapours and gases: No Data

Decomposition Temperature: No Data

Additional Information

Solubility: water - 200g/L ethanol-200g/L

Decomposition Temp: >100'C

10.STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Not available.

Hazardous Decomposition Products: Not available.

Hazardous Polymerization: Has not been reported.

11.TOXICOLOGICAL INFORMATION

Eye Effects:

No data found for product.

Skin Effects:

No data found for product.

Dermal Toxicity:

No data found for product.

Inhalation Effects:

No data found for product.

Sensitization:

No data found for product.

Ingestion Effects:

No data found for product

Carcinogenicity/Mutagenicity:

Not listed as a carcinogen by NTP, IARC or OSHA.

No information found on Mutagenicity.

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Reproductive Effects:

No data found for product.

Neurotoxicity:

No data found for product.

Target Organs:

No data found for product.

Additional Toxicological Information:

No data found for product.

12.ECOLOGICAL INFORMATION

No experimental ecological data are available for product.

13.DISPOSAL CONSIDERATIONS

Product According to local regulations.

Contaminated packaging No specific recommendations.

14.TRANSPORT INFORMATION

Proper shipping name: NABTA-HUMISOL POTASSIUM HUMATE

Label requirement: None

Packing group: N/A

UN: None

15.REGULATORY INFORMATION

TSCA

CAS# 68514-28-3 is listed on the TSCA inventory. Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule. Section 12b

None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA. CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ. SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ. Section 313 No chemicals are reportable under Section 313. Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters. Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under

the CWA. None of the chemicals in this product are listed as Priority Pollutants under the

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CWA. None of the chemicals in this product are listed as Toxic Pollutants under the

CWA. OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA. STATE

CAS# 68514-28-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ. California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed. Canada - DSL/NDSL

CAS# 68514-28-3 is not listed on Canada's DSL List. Canada - WHMIS

WHMIS: Not available.

16.OTHER INFORMATION

MSDS Creation Date: 01/20/2010

Revision #1 Date: 01/20/2010

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.