

MATERIAL SAFETY DATA SHEET

Bone Solution

Document: MSDS_B_Rev0

Date: 101017

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bone Solution
SYNONYMS: None
PRODUCT CODES:

MANUFACTURER: ANDE
DIVISION:
ADDRESS: 266 Second Avenue, Waltham, MA 02451, USA

EMERGENCY PHONE: (781) 916-9050

FAX: (781) 890-2560

CHEMICAL NAME: EDTA solution in water

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: No known chemical, physical or health hazards

ROUTES OF ENTRY: Eye contact, skin contact, Ingestion.

POTENTIAL HEALTH EFFECTS
EYES: May cause irritation.

SKIN: May cause irritation.

INGESTION: May cause irritation.

INHALATION: Inhalation of dust/dried material may cause irritation.

ACUTE HEALTH HAZARDS: May cause skin, eye and respiratory irritation.

CHRONIC HEALTH HAZARDS:
No information found.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>Concentration</u>
EDTA	10378-23-1	<25%
Component 1		<1%
Water		>74%

SECTION 3 NOTES: The product exhibits no known OSHA hazards.

4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water as a precaution. Consult physician if irritation persist

SKIN: Wash of with soap and plenty of water. Remove contaminated clothing and shoes. Consult physician if irritation persist . Wash clothing before reuse.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with plenty of water. Consult physician if symptoms persist

INHALATION: Move to fresh air. If not breathing, give artificial respiration. Consult physician if symptoms persist.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: not flammable
(% BY VOLUME) LOWER:

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FLASH POINT: no data available

AUTOIGNITION TEMPERATURE: no data available

NFPA HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

HMS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: not applicable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: not applicable.

HAZARDOUS DECOMPOSITION PRODUCTS: not evaluated.

SECTION 5 NOTES: As in any fire, wear self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear appropriate personal protective equipment as specified in section 8. Spills. Avoid breathing vapors or dust. Clean up spills so that dried material does not disperse as dust into the air. Prevent scattering of dust by moistening with water. Pick up spill with absorbing towels and dispose in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.

OTHER PRECAUTIONS: Keep containers tightly closed in a cool, dry ventilated place. Protect containers against physical damage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Showers, eye wash station, ventilation system.

VENTILATION : Ensure adequate ventilation.

RESPIRATORY PROTECTION: Not required.

EYE PROTECTION: Safety goggles or safety glasses with side shield.

SKIN PROTECTION: Wear long-sleeved clothing and safety gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear laboratory coat and closed shoes.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid.

ODOR: None.

PHYSICAL STATE: Liquid.

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PH AS SUPPLIED: 7-8.

SOLUBILITY IN WATER: Soluble in water.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID (STABILITY): No data available.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Hazardous decomposition products may be formed under fire conditions, such as carbon dioxides and nitrogen oxides.

HAZARDOUS POLYMERIZATION: Hazardous polymerization does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No acute or chronic toxicological data are available.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: The environmental impact of this product has not been fully investigated.

SECTION 12 NOTES: As with any chemical, dispose according to Federal, state and local regulations.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Material that cannot be saved for recovery should be managed in an appropriate way and an approved waste facility. Although not listed as a RCRA hazardous waste, this material should be disposed of in appropriately closed containers. Consult the appropriate state, regional, or local regulations for additional requirements.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION Not regulated

WATER TRANSPORTATION Not regulated

AIR TRANSPORTATION Not regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

Not listed on inventory. For purposes of 40 CFR 720.36, this product is for Research & Development Use Only.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

This material, as supplied, does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.221 and 40 CFR 122.42)

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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SARA 311/312 HAZARD CATEGORIES:

Acute Health Hazard	NO
Chronic Health Hazard	NO
Fire Hazard	NO
Sudden Release of Pressure Hazard	NO
Reactive Hazard	NO

SARA 313 REPORTABLE INGREDIENTS:

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 172.

STATE REGULATIONS:

This product does not contain any chemicals listed in California Proposition 65.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: This material, as supplied, is not hazardous if handled appropriately.
Refer to sections 3. Hazards Identification, 7. Handling and Storage, 8. Exposure Controls/Personal Protection.

Consult the appropriate state, regional, or local regulations for additional requirements.

The above information is believed to be correct but may not be all inclusive.

The information shall be used as guidance only.

All information is based on present state of NetBio's knowledge and is applicable under appropriate safety precautions.

The information is not a guarantee of the properties of the product.

In no case, shall NetBio be held liable for damage resulting from handling and/or from contact to this product.

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Version Control

Version Number	Date	Author	Description
Rev 0	101017	Richard Selden	