



State of the Art Ingredients • Fast Friendly Service

BioChelate

SECTION 1 :: PRODUCT IDENTIFICATION

Product Name: BioChelate

INCI Name: Trisodium Ethylenediamine Disuccinate

General Use: Chelating Agent. Personal care products, cosmetics.

Emergency Medical 800-228-5635

Chemtrec 800-424-9300

Chemtrec Int'l 703-527-3887

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SECTION 2 :: HAZARDS IDENTIFICATION

Classification of the Substance: Not classified

GHS Label Elements

Signal Word: No signal word

Hazard Statements: No known significant effects or critical hazards

Precautionary Statements

Prevention: N/A

Response: N/A

Storage: N/A

Disposal: N/A

Hazards Not Otherwise Classified: None known

SECTION 3 :: PHYSICAL DATA

Components: Mixture

Identification: Trisodium Ethylenediamine Disuccinate

Contains no hazardous ingredients with normal use.

Occupational Exposure limits, see Section 8

SECTION 4 :: FIRST AID MEASURES

First Aid Procedures

Eye contact: Hold eyelids apart and flush eyes with plenty of water, occasionally lifting the upper and lower lids. Remove contact lenses. If symptoms occur seek medical attention.

Skin contact: Flush with large amounts of water. Remove contaminated shoes and clothing. If symptoms occur seek medical attention.

Inhalation: Move to fresh air and rest in comfortable position to support ease in breathing. If irritation occurs seek medical attention. For inhalation of decomposition products in a fire symptoms may be delayed, keep under medical observation for 48 hours.

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BioChelate

Ingestion Wash out mouth with plenty of water. Move to fresh air and rest in comfortable position to support ease in breathing. If material is swallowed and exposed person is conscious then give small amounts of water to drink. Do not induce vomiting unless advised by medical personnel. If symptoms occur seek medical attention.

Most Important Symptoms, Acute and Delayed

Potential Acute Health Effects

Eye Contact: No known significant effects or critical hazards.
Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure after a fire.
Skin Contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Over Exposure Signs, Symptoms

Eye Contact: No specific data.
Inhalation: No specific data.
Skin Contact: No specific data.
Ingestion: No specific data.

Indication of Immediate Medical Attention and Special Treatment if Symptomatic or Necessary

Note to Physician: In case of inhalation of decomposition products in a fire symptoms may be delayed. Exposed person may require medical observation for 48 hours.

Specific Treatments: None

Protection of First Aid Persons: Do not take personal risk without proper training.

SECTION 5 :: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire.

Unsuitable Extinguishing Media; None known.

Specific Hazards Arising

from the Chemical: In a fire or if heated the pressure in the container will increase and may burst.

Hazardous Thermal

Decomposition Products: Decomposition products may include: carbon dioxide/monoxide, nitrogen/metal oxides.

Special Protective Action

For Fire Fighters: In case of fire promptly isolate the scene and remove all persons from the area. Do not take personal risk without proper training.

Special Protective Equipment

For Fire Fighters: Appropriate protective gear and self contained breathing apparatus (SCBA) with a full face piece operated in pressure mode.

Flash Point:

Closed cup: >100C (>200F) [Pensky-Martens]
[Product does not sustain combustion]

SECTION 6 :: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures

Non Emergency Personnel: Do not take action with personal risk without suitable training. Evacuate surrounding areas. Restrict entry of unnecessary or unprotected personnel. Do not touch or walk through spilled material. Wear suitable personal protective gear.

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Emergency Responders:	If specialized gear is required to deal with the spillage see Section 8 for suitable and unsuitable materials. Also see Non Emergency Personnel above.
Environmental Precautions:	Avoid dispersal of spilled material and run off into soil, waterways, drains, and sewers. Report to local authorities if spillage into sewers, waterways, soil or air
<u>Methods and Materials for Containment and Cleanup</u>	
Small Spill:	Stop leak if possible without risk. Move container from spill area. Dilute with water and mop up if water soluble otherwise, if not water soluble absorb with inert material and place in appropriate waste disposal container. Dispose of in accordance with local, state, and federal regulations.
Large Spill:	Stop leak if possible without risk. Move container from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage into a effluent treatment plant or proceed to: contain and collect spillage with non combustible absorbent material, i.e., sand, earth, vermiculite, diatomaceous earth, and place into appropriate container for disposal in accordance with local, state, and federal regulations (see Section 13 for waste disposal).

SECTION 7 :: HANDLING AND STORAGE

Precautions and Safe Handling

Protective Measures:	Wear appropriate personal protective equipment (see Section 8)
General Occupational Hygiene Measures:	Do not eat, drink, or smoke in any area where material is handled, stored or processed. Remove contaminated clothing and equipment before entering dining areas. See Section 8 for additional information of hygiene measures.
Conditions for safe storage:	Store in accordance with local regulations. Store dry, cool, well ventilated and away from incompatible materials (see Section 10). Keep container tightly sealed. Containers which have been opened must be resealed and kept upright to prevent spillage. Do not store in unlabeled container. Use appropriate containment to avoid spillage and contamination.

SECTION 8 :: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

None

Engineering Controls:	Use good general ventilation.
Environmental Exposure Controls:	Ensure compliance with environmental regulations.

Personal Protection Measures

Hygiene:	Wash thoroughly after handling materials before eating, drinking, smoking and using lavatory facilities at the end of the work period. Remove contaminated clothing and wash before re-use. Ensure that eye wash stations and safety showers are close to the workstation.
Eye/Face Protection:	Safety glasses with side shields / splash goggles unless assessment indicates a higher level of protection.

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Skin Protection

Hands:	Chemical resistant, impervious, gloves should be used: >8 hours breakthrough time: Viton® 1 – 4 hour breakthrough time: nitrile, neoprene, PVC
Body:	Personal protection equipment for the body should be selected based on task and risk involved and should be approved by a specialist before handling any material
Other:	Appropriate footwear and any other skin protection measures should be selected based on task at hand and risk involved and should be approved by a specialist
Respiratory:	Properly fitted air purifying or supplied air respirator in compliance with the approved standard when risk assessment deems it necessary. Respirator selection must be based upon known or anticipated exposure, the hazard of the material, and the safe working limits of the respirator.

SECTION 9 :: PHYSICAL & CHEMICAL PROPERTIES

Appearance

Physical state	Liquid, clear
Color	Colorless to light yellow
Odor	Odorless
pH	8.5 – 10.5
Melting point	<-10°C (<14°F)
Boiling Point	>100°C (>212°F)
Flash point	Closed cup: > 100°C (>212°F) PMCC [product does not sustain combustion]
Evaporation rate	Not available
Flammability (solid,gas)	Not available
Lower and Upper Explosive (flammable) limits	N/A
Vapor pressure	Highest known value: 3.2kPa (23.8mmHg) at 20°C (water). Weighted average: 1.87kPa (14.03mmHg) at 20°C.
Vapor density	Not available
Density	1.25 to 1.4 g/cm ³ [25°C (77°F)]
Specific gravity	Not available
Solubility (water)	Water soluble
Viscosity	Dynamic (room temperature): 15mPa s (15cP)

SECTION 10 :: STABILITY & REACTIVITY

Chemical stability	Stable at normal conditions.
Incompatible materials	No specific data. Avoid oxidizing materials.
Reactivity	No specific test data related to reactivity available for this material or its ingredients. Avoid oxidizing materials.
Possibility of Hazardous Reactions	Under normal conditions of use and storage hazardous reactions will not occur.
Hazardous decomposition	Under normal conditions of use and storage hazardous decomposition will not occur.
Effect on Metal	Incompatibility: Aluminum
Conditions to Avoid	No specific data.

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SECTION 11 :: TOXICOLOGICAL INFORMATION

Acute: Not available.
Chronic: Not available.
Irritation
Corrosion Not available.
Conclusion / Summary:
Non irritating to skin
Non irritating to eyes
Sensitization: Not available.
Mutagenicity: Not available.
Carcinogenicity:
Not classified or listed by IARC, NTP, OSHA, EU, ACGIH.
Reproductive
Toxicity: Not available.
Teratogenicity: Not available.
Specific Target
Organ Toxicity (single exposure): Not available.
Specific Target
Organ Toxicity (repeated exposure): Not available.
Aspiration Hazard: Not available.

SECTION 12 :: ECOLOGICAL INFORMATION

Ecotoxicity No data is available on the product itself.
Persistence and
degradability Readily biodegradable.

SECTION 13 :: DISPOSAL CONSIDERATIONS

Disposal instructions All wastes must be handled in accordance with local, state and federal regulations. Regulations vary. Dispose in accordance with all applicable regulations related to environmental protection. Empty containers or liners may retain material residue. Avoid dispersal into waterways, soil, drains, and sewers.

SECTION 14 :: TRANSPORT INFORMATION

Not regulated: DOT, IMDG, IATA
User precautions:
Transport within Premises: Always transport upright, tightly sealed by trained personnel only.



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SECTION 15 :: REGULATORY INFORMATION

US Federal Regulations: United States Inventory (TSCA 8b) All components are listed or exempt.

SARA 302/304

Composition information on ingredients

None found

SARA 311/312

Classification: N/A

Composition information on ingredients

None found

State Regulations

California Proposition 65: Statement to comply with California Safe Drinking Water and Toxic Enforcement Act of 1986. This material is not known to the state of California to cause cancer, birth defects or other reproductive harm.

International lists

National Inventory

AUS	All components listed or exempt
CA	All components listed or exempt
CHINA	At least one component is not listed.
EUROPE	At least one component is not listed in EINECS however all components are listed in ELINCS
JAP	All components listed or exempt
NEW ZEALAND	All components listed or exempt
PHIL	All components listed or exempt
KOR	All components listed or exempt
TAIW	All components listed or exempt
US	All components listed or exempt

Our REACH (pre) Registrations do not cover:

The importation of this material into Europe by other companies.

SECTION 16 :: OTHER INFORMATION

HMIS® ratings Health: 1
 Flammability: 0
 Physical hazard: 0

NFPA ratings Health: 1
 Flammability: 0
 Instability: 0

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