

MSDS_Ectoine

No.:M-1049

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ectoine

INCI Name: Ectoine

Relevant identified uses: For cosmetics use or laboratory chemicals.

Company Name: BrightGene Health Technology Co., Ltd

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute aquatic toxicity: No data

Chronic aquatic toxicity: No data

2.2 Label elements

Hazard symbol: No available

Signal word: Not available.

Hazard statement: Harmful to aquatic life with long lasting effects.

Precaution: Avoid release into the environment.

Incident response: Not applicable

Safe storage: Not applicable

Disposal: Dispose of contents/container in a suitable disposal and waste facility in accordance with applicable legal and regulatory requirements and the characteristics of the product at the time of disposal.

2.3 Other Hazards

No data

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Assay (%)
Ectoine	96702-03-3	≥99.0%

4. FIRST AID MEASURES

General information: Remove contaminated or soaked clothing immediately

Inhalation: Ensure fresh air supply.

Skin: In case of skin contact, wash with soap and water. Consult a physician if skin irritation persists.

Eyes: Rinse eyes immediately and thoroughly and protect unaffected eye areas. If you feel unwell: Provide heal.

Ingestion: Clean mouth thoroughly with water and perform medical treatment.

Advice for protecting rescuers: Do not breathe explosive and/or flammable gases, use self-contained breathing apparatus and wear protective clothing.

5. FIRE FIGHTING MEASURES

General fire hazards: Fire residues and contaminated fire water must be disposed of in accordance with local regulations. Collect contaminated fire water separately and do not discharge it into the sewer.

Suitable extinguishing media: Foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: Large amounts of water spray.

Specific hazards arising from chemicals: In the event of a fire, the following substances may be released: - carbon dioxide, carbon monoxide - nitrogen oxides.

Fire fighting precautions: No specific.

Protective measures: Do not breathe explosive and/ flammable gases. Use self-contained breathing apparatus and wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Worker protective measures, protective equipment and emergency procedures: Use personal protective equipment.

Containment, cleanup methods and disposal materials used for leaked chemicals: Collect using absorbent material (e.g. sand, diatomaceous earth, universal binder). Dispose of absorbed material in accordance with regulations.

Environmental protection measures: Do not allow it to enter sewers or waterways. Do not discharge into subsoil/soil.

Preventive measures to prevent secondary disasters: Do not allow product to enter soil, waterways or waste pipes. Eliminate sources of ignition; prohibit all flash, smoke or flames in hazardous areas.

7. HANDLING AND STORAGE

Technical measures (e.g. local and general ventilation): No data available

Recommendations for safe disposal: Avoid skin and eye contact. Do not breathe gas/vapor/aerosol. Provide good ventilation in the work area (local exhaust ventilation if necessary).

Measures to avoid contact: No data available

Hygiene measures: No eating, drinking or smoking is allowed during working hours. Wash your hands before taking breaks and immediately after handling this product.

Safe storage conditions: Store only in original, unopened container. Clean and dry. Please refer to the product technical data sheet for detailed information.

Recommended storage temperature: Store at room temperature

Safety packaging materials: No data available

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits: No exposure limits have been defined for any component.

Biological exposure limits: Does not contain substances with biological limit values (China)

Appropriate engineering controls: No data available

Monitoring methods: No data available

Personal protective measures such as personal protective equipment eye/face protection: This product is not classified as eye irritant. Any necessary eye protection measures must be determined within the context of a risk assessment.

Hand protection: Additional information: PVC gloves

Skin and body protection: Light protective clothing

Respiratory protection: When vapor/aerosol is generated: Short term: filter unit, filter type A-P2

Hygiene measures: No eating, drinking or smoking is allowed during working hours. Wash your hands before taking breaks and immediately after handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Appearance	Powder
Color	White
Odor	Odorless
Odor threshold	Not determined
PH	6.0-8.0
Freezing point	Not determined
Melting point	Not determined
Explosive	Not determined
Oxidative properties	Not determined
Minimum ignition temperature	Not determined
Metal corrosion	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Explosion limit-upper/lower limit	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Solubility in water	390g/L
Solubility (other)	Not applicable
Decomposition temperature	Not determined

10. STABILITY AND REACTIVITY

Reactivity: See Possibility of Adverse Reactions.

Chemical stability: The product is stable under normal conditions.

Possible hazardous reactions: No hazardous reactions when stored and handled properly.

Conditions to avoid: None, when stored and handled appropriately.

Incompatible materials:Unknown

Hazardous decomposition products:None, when stored and handled appropriately.

1 1 . TOXICOLOGICAL INFORMATION

Information on possible routes of exposure

Inhalation

If done properly, it is not a relevant route of exposure.
Information on the impact is below.

Skin contact

Relevant exposure routes. Information on the impact is below.

Eye contact

Relevant exposure routes. Information on the impact is below.

Ingest

If done properly, it is not a relevant route of exposure.
Information on the impact is below.

Symptoms related to physical, chemical and toxicological properties

Inhalation

No data

Skin contact

No data

Eye contact

No data

Ingest

If done properly, it is not a relevant route of exposure.
Information on the impact is below.

Toxicological effects information

Ingest

LD 50 (rat): > 2,000 mg/kg (OECD 423)

Skin contact

LD 50 (rat): > 2,000 mg/kg (OECD 402)

Inhalation

No data

Repeat dose toxicity

No data

Skin corrosion/irritation

Non-irritating

OECD 404 Rabbit: Non-irritating

Serious eye damage/eye irritation

Risk of serious damage to eyes.

Rabbit, OECD 405: Moderately irritant Tested with 5% solution

Respiratory or skin allergies

OECD 406 (guinea pig) non-allergenic

Carcinogenicity

No data

Germ cell mutagenicity in vitro/in vivo

No data

Reproductive toxicity

No data

Aspiration hazard

Uncategorized

Other effects

As far as we currently know, there are no negative health effects if used appropriately.

1 2 . ECOLOGICAL INFORMATION

No data

1 3 . DISPOSAL CONSIDERATION

Disposal methods:Should not be released into the environment. Do not pour into any drain, onto the ground, or into any body of water. Please follow local and national laws and regulations, which may vary in different regions. The identification of chemical wastes and subsequent compliance with relevant legal regulations are the main responsibility of the waste generator. Wastes listed in the national hazardous waste list must be entrusted to a waste treatment agency with relevant qualifications for disposal. Chemical waste generators must determine whether discarded chemicals are classified as general waste or hazardous waste. As a supplier of chemical products, we are unable to know the specific uses, processing processes and sources of technology of the user units, so we cannot provide waste classification information after the products are discarded.

Contaminated packaging:Uncontaminated packaging can be recycled and reused. Packaging that has been contaminated with its contents should be treated in the same manner as its contents and needs to be entrusted to a waste disposal agency with relevant qualifications for recycling or disposal. Please follow local and national laws and regulations, which may vary in different regions. Do not dispose as household waste.

1 4 . TRANSPORT INFORMATION

Domestic regulations

Land transportation (GB 6944/12268)

Not managed as dangerous goods

International regulations

Land transportation(UNRTDG)

Not managed as dangerous goods

Air freight (IATA-DGR)

Not managed as dangerous goods

Shipping(IMDG-Code)

Not managed as dangerous goods

15. REGULATORY INFORMATION

Registry Information: This product is not hazardous.

16. OTHER

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.