



SAFETY DATA SHEET

Fenchem Biotek Ltd.

Tel: 0086-25-84218888

Fax: 0086-25-84574987

E-mail: sales@fenchem.com

www.fenchem.com

1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Identification of the substance:

Product Name: Betaine Hydrochloride 97%

Chemical Name: Betaine Hydrochloride

INCI Name: None

Company identification:

Registered company name: Fenchem Biotek Ltd.,

Address: 19F, Fortune Building, No. 359 Hongwu Rd, NJ, China. PC: 210002.

Telephone: +86 25 84218888 Fax: +86 25 84574987

Email: sales@fenchem.com

<http://www.fenchem.com>

Emergency telephone: +86 25 84574708

Recommended use of the chemical

General uses: Best phagostimulants for fish and shellfish as a feed additive

Restrictions on use: None

2 - HAZARDS IDENTIFICATION

The hazard classification of the chemical: Not classified.

Signal word: No signal word

Hazard statement: None

Pictograms: None.

Precautionary statement: None

Other hazards

None

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Content %	CAS#
Betaine Hydrochloride	97%	590-46-5

4 - FIRST AID MEASURES

In the event of exposure by inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In the event of splashes or contact with eyes:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

In the event of splashes or contact with skin:



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Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

In the event of swallowing:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

5 - FIRE-FIGHTING MEASURES

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Special protective equipment for fire-fighters:

As with most organic solids, fire is possible at elevated temperatures.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Normal precautions.

Environmental precautions:

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Methods for cleaning up:

No data.

7 - HANDLING AND STORAGE

Handling:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not



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ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Safety glasses. Lab coat.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit, Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: Solid

Important health, safety and environmental information:

Appearance:	White crystalline powder
Odor:	Odorless.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Evaporation Rate:	Negligible.
Viscosity:	Not available.
Boiling Point:	Not available.
Melting Point:	232°C (449.6°F)
Decomposition Temperature:	Not available.
Specific Gravity/Density:	Not available.
Solubility in water:	Easily soluble in cold water, hot water.

Other information

No data available

10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

High temperatures, dust generation.



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Incompatibilities with Other Materials:

Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Hygroscopic; keep container tightly closed.

Hazardous Polymerization: Has not been reported.

Materials to avoid:

Water.

Hazardous decomposition products:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

11 - TOXICOLOGICAL INFORMATION

LD50/LC50: Acute oral toxicity (LD50): Not available.

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: Classified POSSIBLE for human.

Reproductive Effects:

Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED].

Neurotoxicity: No information available.

Mutagenicity: No information available.

Other Studies: No information available.

12 - ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: Lack of data.

Water Hazard Class: Lack of data.

Persistence and degradability

Further details: Biodegradability in Water: Lack of data.

Bioaccumulative potential

Partition coefficient n-octanol/water: Lack of data.

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

13 - DISPOSAL CONSIDERATIONS

Waste: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Soiled packaging: None-recycle.



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14 - TRANSPORT INFORMATION

UN number

Not applicable

UN proper shipping name

ADR/RID, IMDG, IATA: Not restricted

Transport hazard class(es)

Not applicable

Packing group

Not applicable

Environmental hazards

Marine pollutant - IMDG: No

Special precautions for user

No dangerous good in sense of these transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

15 - REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Betaine Hydrochloride

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R36/38- Irritating to eyes and skin.

R63- Possible risk of harm to the unborn child.

S24/25- Avoid contact with skin and eyes.

HMS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.



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The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

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