

## Material Safety Data Sheet

### Betaine Anhydrous 96%

#### Section 1 - Chemical Product and Company Identification

**Synonyms:** (Carboxymethyl) trimethylammonium hydroxide inner salt;  
Abromine;alpha-earleine; Glycine betaine; Oxynurine; Lycine

**Company Identification:**

Sunwin Biotech Shandong Co., Ltd.

0199 Binhai Avenue, Lingang Industrial Park, Binhai Economic Development Zone,  
Weifang, Shandong, China

**Info Phone Number:** 86-536-8869166

**Info Fax Number:** 86-536-8869188

#### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
107-43-7	Betaine anhydrous	96.0 UP (%)	203-490-6

**Other Ingredients:** Sodium Chloride and water: 2.0%

Anti-caking agent: 2.0%

**Hazard Symbols:** None Listed.

**Risk Phrases:** None Listed.

#### Section 3 - Hazards Identification

##### EMERGENCY OVERVIEW

Not available.

##### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** No hazard expected in normal industrial use. Ingestion of large amounts may cause gastrointestinal irritation.

**Inhalation:** No hazard expected in normal industrial use. May cause irritation of the respiratory tract.

**Chronic:** No information found.

## Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** No information found.

## Section 5 - Fire Fighting Measures

### General Information:

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

### Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

### General Information:

Use proper personal protective equipment as indicated in Section 8.

### Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation

**Storage:** Store in a cool and dry place. Store in a tightly closed container.

## Section 8 – Exposure Controls/Personal Protection

**Engineering Controls:** Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

### Personal Protective Equipment

**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 gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Appearance:</b>	White or off-white powder
<b>Odor:</b>	Odorless.
<b>pH:</b>	4.0-7.0 (10g/100ml aq.sol(25°C))
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Evaporation Rate:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Boiling Point:</b>	Not available.
<b>Freezing/Melting Point:</b>	250-260 °C (decompose)
<b>Solubility in water:</b>	160 g/100 ml (20°C)
<b>Specific Gravity/Density:</b>	Not available.
<b>Molecular Formula:</b>	$(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{COO}^-$
<b>Molecular Weight:</b>	117.15

## Section 10 - Stability and Reactivity

**Chemical Stability:** Hygroscopic. Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, exposure to moist air or water.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

RTECS#: CAS#107-43-7: DS5900000

**LD50/LC50:** LD50: 0.83 G/KG (intravenous)  
10.8 G/KG (subcutaneous)

**Carcinogenicity:** Betaine anhydrous 96% is not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

## Section 12 - Ecological Information

Not available.

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

**ADR/RID:** Not a dangerous goods.

**IMDG:** Not a dangerous goods.

**IATA:** Not a dangerous goods.

**US DOT:** No information available

**Canadian TDG:** No information available.

## Section 15 - Regulatory Information

### US FEDERAL

**TSCA:** CAS# 107-43-7 is listed on the TSCA section 8(b) chemical inventory. 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 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:** Betaine anhydrous is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California No Significant Risk Level:** None of the chemicals in this product are listed.

#### **EUROPEAN/INTERNATIONAL REGULATIONS**

European Labeling in Accordance with EC Directives

**Hazard Symbols:** Not available.

**Risk Phrases:**

**Safety Phrases:** S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection):** CAS# 107-43-7: 0

**Canada**

CAS# 107-43-7 is listed on Canada's DSL List.

CAS# 107-43-7 is not listed on Canada's Ingredient Disclosure List.

### **Section 16 – Other Information**

**Created:** 2000-03-09

**Last updated:** 2016-09-08

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