



Material Safety Data Sheet

GLYCINE BETAINE 98 %

Section 1 - Chemical Product and Company Identification

MSDS Name: Glycine Betaine

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

Company Identification: Dumont Agencies CC

Info Phone Number: +27 21 9311495 / 082 336 4811

Section 2 - Composition, Information on Ingredients

Other Ingredients: Sodium Chloride and water: 2.0 %

CAS#	Chemical Name	Percent	EINECS/ELINCS
107-43-7	Glycine Betaine	98.0 UP (%)	203-490-6

Section 3 - Hazards Identification

OVERVIEW

Not a hazardous substance or mixture according to Regulation (EC) no.: 1272/2008

This substance is not classified as dangerous according to Directive 67/548/EEC

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.

NFPA Rating: Not published.

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

Physical State: Solid

Appearance: White crystalline powder

Odor: Slight characteristic odor to Odorless.

pH: 4.0-7.0 (10g/100ml aq.sol(25°C))

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 250-260 °C (decompose)

Solubility in water: 160 g/100 ml (20°C)

Specific Gravity/Density: Not available.

Molecular Formula: $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{COO}^-$

Molecular Weight: 117.15

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal pressures and temperatures.

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

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, Carbon oxides.

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 98%, Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Mutagenicity: No data available.

Neurotoxicity: No data available.

Other Studies:

Section 12 - Ecological Information

No Information Available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data 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: Not available

WGK (Water Danger/Protection)

CAS# 107-43-7: Not Available

United Kingdom Occupational Exposure Limits

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.

Exposure Limits

Section 16 – Other Information

MSDS Creation Date: 2000-03-09

Revision Date: 2015-11-12

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.