

# Safety Data Sheet



## Section 1: Identification

**Product Name** Glute Out®  
**Chemical Name** Mixture

**Product Identification:** Sodium Bicarbonate  
**Chemical Name:** Sodium Bicarbonate  
**Molecular formula:** NaHCO<sub>3</sub> **Molecular weight:** 84.01G/MOL

**Product Identification:** Glycine –USP, Pharma, Glycine-USP-NF, Glycine Technical Grade.  
**Chemical Name:** Aminoacetic Acid  
**Molecular formula:** C<sub>2</sub>H<sub>5</sub>NO<sub>2</sub> **Molecular weight:** 75.G/MOL

**Use of the Substance/Mixture:** Pharmaceuticals.  
Food additive.  
Cosmetic additive.  
Photochemicals.

**Details of the supplier of the safety data sheet**  
**Manufacturer** CIVCO Medical Solutions  
102 First Street South  
Kalona, IA 52247-9589  
United States  
www.civco.com  
info@civco.com  
Telephone (General) 1-319-248-6757

**Emergency telephone number**  
1-800-424-9300 CHEMTREC  
1-703-527-3887 International CHEMTREC

## Section 2: Hazard Identification

**2.1. Emergency Overview: Sodium Bicarbonate**  
**NFPA:** H=1 F=0 I=0 S=None  
**HMIS:** H=1 F=0 R=0 PPE = Supplied by User; dependent on local conditions

**2.2 Emergency Overview: Aminoacetic Acid**  
**NFPA:** H=1 F=1 I=0 S=None  
**HMIS:** H=1 F=1 R=0 PPE = Supplied by User; dependent on local conditions

**General Information**  
Appearance: Powder Color: White Odor: Odorless  
**Main effects** May cause skin, eye, and respiratory tract irritation.  
**Hazard Information:** CAUTION May cause eye, skin and respiratory tract irritation.  
**Eye contact**  
Not expected to cause eye irritation.  
**Skin contact**  
Health injuries are not known or expected under normal use.  
**Inhalation**  
No adverse effects expected under ordinary conditions of use.  
**Ingestion**  
Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.  
**Aggravated Medical Conditions**  
None known

## Section 3 - Composition/Information on Ingredients

Chemical Name	Weight - %	CAS Number
Sodium Bicarbonate	45 %	144-55-8
Aminoacetic Acid	55 %	56-40-6

## Section 4: First-Aid Measures

**Eye contact**  
Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical advice immediately.

**Skin contact**  
Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/ attention.

**Inhalation**  
Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion**  
Do NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.

**Aggravated Medical Conditions**  
None known.

**Notes to Physician**  
Treat symptomatically.

## Section 5 - Firefighting Measures

**Flash point:** Not applicable

**Auto ignition temperature:** No information available  
Flammable Limits in Air - Lower (%) No information available  
Flammable Limits in Air - Upper (%) No information available

**Suitable extinguishing media**  
Water fog, carbon dioxide, foam, dry chemical.

**Firefighting measures**  
Keep people away. Isolate fire area and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Fight fire from protected location or safe distance. Consider use of unmanned hose holder or monitor nozzles. Immediately withdraw all personnel from area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard. Hand held carbon dioxide or dry chemical extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents.

**Special Hazard**  
Container may rupture from gas generation in a fire situation. Do not permit dust to accumulate. Dust layers can be ignited by spontaneous combustion or other ignition sources. When suspended in air dust can pose an explosion hazard.

**Special protective equipment for firefighters**  
Full protective clothing and approved self-contained breathing apparatus required for fire-fighting personnel.

## Section 6 - Accidental Release Measures

**Methods for cleaning up**  
Clear non-emergency personnel from area. Remove with shovel. Transfer to suitable and properly labeled containers for disposal.

**Personal precautions**  
Wear suitable protective clothing and gloves.

**Environmental precautions**  
Avoid runoff to waterways and sewers.

## Section 7- Handling and Storage

**Advice on safe handling**

- Avoid generation of dust Do not breathe (dust, vapor, mist, gas)
- Use only with adequate ventilation
- Use respiratory protection where dust may be generated
- Avoid contact with eyes, skin and clothing
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- Wash thoroughly after handling
- Keep container closed when not in use
- **FOR INDUSTRIAL USE ONLY**

**Technical measures and storage conditions**

- Store in a dry place
- Store in a cool, well ventilated area
- Keep away from heat, sparks and flame

## Section 8 - Exposure Controls/Personal Protection

**Engineering controls**  
Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient. See section 3 for more information.

**Respiratory protection**  
If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134. See section 3 for more information.

**Hand protection**  
Appropriate chemical resistant gloves should be worn.

**Skin and Body Protection**  
Standard work clothing and work shoes.

**Eye/face protection**  
Chemical goggles or a face shield if splashing hazard exists.

**Other Personal Protection Data**  
Eyewash fountains and safety showers must be easily accessible.

## Section 9: Physical and Chemical Properties

**General Information**  
Appearance: powder  
Color: white  
Odor: odorless

**pH**  
No information available

**Specific Gravity**  
No information available

**Density**  
1.161 g/cm<sup>3</sup>.

**Bulk Density**  
No information available

**Flash Point**  
Not applicable

**Autoignition Temperature**  
No information available

**Boiling point / Boiling Range**  
No information available

**Melting / Freezing Point**  
Product decomposes at elevated temperatures

Vapor Pressure	0.0000171 Pa @ 25 °C
Vapor Density	No information available
Percent Volatile	wt.% 0.2 % max
Evaporation Rate	No information available
Solubility (Water)	250 g/L
Solubility in Other Solvents	No information available
Volatile Organic Compounds (VOCs) Content	No information available
Dynamic Viscosity	Not applicable
Kinematic Viscosity	Not applicable
Molecular Weight	75.07 g/mol

#### Ultimate biodegradation

Readily biodegradable. All organic substances contained in the product achieve > 60% BOD/COD or CO<sub>2</sub> liberation, or > 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are reached. Method: OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II).

#### Chemical Fate Information

No information available Remarks

#### Other information

None

### Section 13 - Disposal Considerations

#### Disposal of wastes

Since the emptied container retains product residue, all labeled hazard precautions must be observed. Do not put solutions containing this product into sewer systems. Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations.

#### RCRA

Fish LC50 (96 h): > 1000 mg/L (Oryzias latipes)  
Method: OECD Test No. 203: Fish, Acute Toxicity Test.

#### Persistence and degradability

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)  
Is the unused product a RCRA hazardous waste if discarded? (Yes/No) **No**  
If yes, the EPA Hazardous Waste Code is: **N/A**

### Section 14 – Transport Information

DOT	Status	Not regulated
IMDG	Status	Not regulated
ICAO/IATA	Flash point	Not applicable

### Section 15 – Regulatory Information

#### Inventory Information

#### TSCA (United States)

All ingredients are on the inventory or exempt from listing

#### Australia (AICS)

All ingredients are on the inventory or exempt from listing

#### Canada (DSL)

All ingredients are on the inventory or exempt from listing

#### Canada (NDSL)

None of the ingredients are on the inventory.

#### China (IECSC)

All ingredients are on the inventory or exempt from listing

#### EINECS (European Inventory of Existing Chemical Substances)

All ingredients are on the inventory or exempt from listing

#### ELINCS (European List of Notified Chemical Substances)

All of the components of this product are not listed on ELINCS.

#### ENCS (Japan)

All ingredients are on the inventory or exempt from listing.

#### South Korea (KECL)

All ingredients are on the inventory or exempt from listing

#### Philippines (PICCS)

All ingredients are on the inventory or exempt from listing

Glycine [56-40-6] CAA - Hazardous Air Pollutants

#### New Jersey Trade Secret Registry Number(s):

N/A

#### SARA Section 311/ 312 Hazard Class

This product is classified as a SARA ACUTE HEALTH HAZARD.

#### Other information

This product does not contain any ingredients subject to the reporting requirements of SARA Title III, Section 313 (40CFR Part 372).

### Section 16 - Other Information

**NFPA Overall Rating**  
Health: 1 Flammability: 1 Reactivity: 0  
Special = Supplied by User, dependent on local conditions

**HMIS Overall Rating**  
Health: 1 Flammability: 1 Reactivity: 0  
PPE = Supplied by User; dependent on local conditions.



#### Disclaimer/Statement of Liability

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Last Revision Date: 02.26.18

### Section 10 – Stability and Reactivity

#### Stability

Stable under recommended storage conditions.

#### Conditions to avoid

Avoid temperatures above (180°C) 356°F. Product decomposes above the melting temperature.

#### Materials to avoid

Avoid contact with oxidizing materials. Avoid unintended contact with acids, bases, halogenated hydrocarbons

#### Hazardous decomposition products

Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition. Carbon dioxide, carbon monoxide, and nitrogen oxides can be expected.

#### Hazardous polymerization

Not anticipated under normal or recommended handling and storage conditions.

#### Additional Guidelines:

None

### Section 11 – Toxicological Information

**PRINCIPAL ROUTES OF EXPOSURE:** Skin, eyes and respiratory tract.

#### Eye contact

Not expected to cause eye irritation.

#### Skin contact

Health injuries are not known or expected under normal use.

#### Inhalation

No adverse effects expected under ordinary conditions of use.

#### Ingestion

Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

#### Carcinogenicity Status

Mutagenicity/Genotoxicity: No mutagenicity or genotoxicity studies have been carried out with this product.

This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or OSHA.

#### Acute toxicity

<b>Oral LD50</b>	> 5000 mg/kg body weight
<b>Dermal LD50</b>	No information available
<b>Ingestion</b>	Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Bicarbonate	3360 mg/kg (Mouse)	-	-
Aminoacetic Acid	7930 mg/kg (Rat)	-	-

**Eye Contact** Not expected to cause eye irritation.

**Inhalation LC50** No information available.

#### Sensitization

Dermal sensitization: non-sensitizing  
OECD 429

#### Repeated dose toxicity

No adverse effects observed. (Oral route)  
OECD Test No. 407: Repeated Dose 28-day Oral Toxicity Study in Rodents

#### Other information

Conclusions are drawn from sources other than direct testing.

### Section 12 - Ecological Information

#### Ecotoxicity effects

#### Acute toxicity

- Fishes, *Lepomis macrochirus*, LC50, 96 h, 1000 mg/l  
Method: OECD Test No. 203: Fish, Acute Toxicity Test.
- Crustaceans, *Ceriodaphnia dubia*, EC50, 48 h, > 220 mg/l  
Method: Acute daphnia toxicity according to test method OECD 202.
- Algae/aquatic plants, EC50, 72h, > 1000 mg/l.  
Method: OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test

#### Mobility

Not expected to adsorb on soil

#### Persistence and degradability

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)  
Bioaccumulative potential