

## Material Safety Data Sheet.

### 1. IDENTIFICATION

**Product Identifier:** Betaine Anhydrous

**Other Means of Identification:**

Synonymes: Oxyneurine (Carboxymethyl) trimethylammonium inner salt

Chemical Formula:  $C_5H_{11}NO_2$

CAS Number: 107-43-7

EC-# 203-490-6

**Recommended Use:** Nutritional supplement or Food product.

**Restrictions on Use:** Any other than noted above.

**Initial Supplier Identifier:** Gurvey & Berry Co. Inc.  
310 Judson Street, Unit #15  
Toronto, ON, Canada, M8Z 5T6  
Tel: (416) 259-5700 Fax: (416) 259-5417  
E-mail: [msds@gurveyberry.com](mailto:msds@gurveyberry.com)

**Emergency Telephone number:** Canutec +1 (613)-966-6666

### 2. HAZARD IDENTIFICATION

**GHS Classification in accordance with Hazardous Products Regulations (HPR) OR/2015-17)**

Causes eye irritation (GHS Category 2B)

No pictogram.

**Warning!**

**Hazard statement(s)**

H320 Causes eye irritation.

**Precautionary statements:**

**Prevention:**

P264 Wash hands thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses if present and easy to do - continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

## Hazards not otherwise classified (HNOC) or not covered by GHS

### CAUTION!

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation.

Chronic: No information found.

Hygroscopic (absorbs moisture from air).

**The toxicological properties of the material have not been fully investigated.**

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms	Other identifiers
Betaine Anhydrous	107-43-7	100%	See section 1	

### Notes:

## 4. FIRST-AID MEASURES

### First aid measures by route of exposure:

#### General:

Move out of dangerous area.  
Remove any contaminated clothing.  
Consult a physician and show this safety data sheet.

#### After Ingestion:

Do not induce vomiting without medical advice.  
Rinse mouth with water.  
Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

#### After Inhalation:

Move person to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Obtain medical aid.

#### After Skin Contact:

Remove contaminated clothing and shoes.  
Brush off loose particles from skin.  
Flush skin with soap and water at least 15 min.  
Seek medical attention if irritation develops.

#### After Eye Contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention should irritation develop or persist.

## Most Important Symptoms and Effects, Acute and Delayed:

<b>Ingestion:</b>	N/A
<b>Inhalation:</b>	N/A
<b>Skin Contact:</b>	N/A
<b>Eye Contact:</b>	N/A
<b>Medical Conditions Aggravated By Exposure:</b>	N/A

**Immediate Medical Attention and Special Treatment:** N/A

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Water, dry chemical, chemical foam, or alcohol resistant foam.

**Unsuitable Extinguishing Media:** N/A

**Special Hazards Arising from the Product:**

Decomposition Products - Nitrogen oxides, carbon monoxide, and carbon dioxide, nitrogen.

**Special Protective Equipment and Precautions for Fire-Fighters:**

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

## 6. ACCIDENTAL RELEASE MEASURES

**Individual Protection Measures (e.g. personal protective equipment):**

Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing dust. For full list of PPE see [section 8](#).

**Methods and materials for containment and cleaning up**

**Small spill:**

Wear personal protective equipment. Sweep up, then place into a suitable container for disposal. Avoid generating dust. Provide ventilation. Don't get water inside containers.

**Large spill:**

Evacuate the area. Communicate the hazard to other workers. Do not touch damaged containers or spilled material unless wearing a respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Use a shovel to put the solid in a convenient waste disposal container. Avoid generation of dust. Dispose the waste container of in according to local and regional authority regulations.

**Environmental precautions:** N/A

**Reference to other sections:** See section 1 for emergency contact.  
 See section 8 for information on appropriate personal protective equipment.  
 See section 13 for disposal.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Wash hands thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Conditions for Safe Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area. Protect from moisture.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
Taurine	N/A	N/A	N/A	N/A

**Appropriate Engineering Controls:** Good general ventilation. Mechanical exhaust recommended. Safety shower and eye wash fountain are required.

### Personal precautions, protective equipment, and emergency procedures:

**Respiratory System:** Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust. Use an N 95 respirator or better.

**Eye/face protection** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection** Impervious protective clothing and boots should be worn to prevent skin contact.  
 Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Control of environmental exposure** N/A

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form:	Powder
Color:	Colorless or White
Molecular Weight:	117.17 RTEC
Odor:	Odorless
Odor Threshold:	N/A
pH:	5.5-7.0 (10% solution)
Melting Point/freezing point:	301 C
Initial boiling point/boiling range:	N/A
Flash Point:	N/A
Evaporation Rate:	N/A
Flammability (solid; gas):	N/A
Upper flammability or explosive limits	N/A
Lower flammability or explosive limits	N/A
Vapor Pressure (mmHg):	N/A
Vapor Density (air=1):	N/A
Relative Density:	N/A
Solubility in Water:	1600 g/l at 20C - soluble
Solubility in Other Agents:	N/A
Partition coefficient (n-octanol/water)	N/A
Autoignition	N/A
Decomposition	N/A
Viscosity	N/A
Explosive properties	N/A
Oxidizing properties	N/A
Other information:	N/A

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	N/A
<b>Chemical stability:</b>	Stable under normal temperatures and pressures.
<b>Possibility of hazardous reactions:</b>	N/A
<b>Conditions to avoid:</b>	Heat, open flame, and incompatible materials.
<b>Incompatible materials:</b>	Strong oxidizing agents
<b>Hazardous decomposition products:</b>	Nitrogen oxides, carbon monoxide, carbon dioxide.
<b>Other decomposition products:</b>	N/A
<b>In the event of fire:</b>	see section 5.

## 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation:	Yes
Skin contact:	Yes
Eye contact:	Yes
Ingestion:	Yes

**Acute Toxicity Oral LD<sub>50</sub>:** N/A  
TDLo (Lowest published toxic dose) Oral, Rat 14gr/kg/14D  
RTECS Number DS5900000

**Skin corrosion/irritation:** Possible  
**Serious Eye Damage/irritation:** Possible  
**Respiratory and/or Skin Sensitization:** N/A  
**Aspiration Toxicity:** N/A  
**STOT (Specific Target Organ Toxicity) Single Exposure:** N/A  
**STOT (Specific Target Organ Toxicity) Repeated Exposure:** N/A

**Carcinogenicity:**  
**IARC** Not listed  
**ACGIH®** Not listed  
**OSHA** Not listed  
**Reproductive Toxicity:** N/A  
**Germ Cell Mutagenicity:** N/A  
**Interactive Effects** N/A

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**  
No data available  
**Persistence and degradability:**  
No data available  
**Bioaccumulative potential:**  
No data available  
**Mobility in soil:**  
No data available  
**Other adverse effects:**  
No data available

## 13. DISPOSAL CONSIDERATIONS

**Wastes of Residues:** Dispose according to local, provincial, and federal regulations.  
**Contaminated Packaging:** Dispose of as unused product.

## 14. TRANSPORT INFORMATION

Not hazardous for transport.

## **15. REGULATORY INFORMATION**

CANADA

DSL/NDSL:

CAS # 107-43-7 is listed on the DSL.

## **16. OTHER INFORMATION**

This information is based upon knowledge currently available.

More detailed information on the physical and chemical properties can be requested from the supplier. To the best of our knowledge, the information contained herein is accurate and complete. However, this should not be construed to imply any warranty or guarantee. Gurvey & Berry Co. Inc. shall not be held liable for any damage resulting from handling or from contact with the above chemical.

Created On: December 5, 2005

Last Revised: 20 November 2020

Printed On: 16 March 2021

This document will only be updated as needed.

N/A = not available.

N/D = not determined.