# Material Safety Data Sheet

Version 3.0 Revision Date 12/28/2008 Print Date 02/06/2009

Page 1 of

Page 2 of

Page 3 of

# 1. PRODUCT AND COMPANY IDENTIFICATION

: Betaine Product name Product Number 61962

Brand Sigma

Company : Sigma-Aldrich Canada, Ltd. 2149 Winston Park Drive OAKVILLE ON L6H 6J8

CANADA

: +1 9058299500 Telephone +1 9058299292 : 800-424-9300 Emergency Phone #

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Oxyneurine

(Carboxymethyl)trimethylammoniuminner salt

Formula : C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub> Molecular Weight : 117.15 g/mol

CAS-No. Index-No. Concentration EC-No. Betaine 203-490-6 107-43-7

Not WHMIS controlled.

#### WHMIS Classification Not WHMIS controlled.

3. HAZARDS IDENTIFICATION

Fax

## HMIS Classification

0 Health Hazard: 0

Flammability: Physical hazards: 0 Potential Health Effects

May be harmful if inhaled. May cause respiratory tract irritation. Inhalation Skin May be harmful if absorbed through skin. May cause skin irritation.

May cause eye irritation. Eyes Ingestion May be harmful if swallowed.

Sigma-Aldrich Corporation

www.sigma-aldrich.com

4. FIRST AID MEASURES

If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration

Sigma - 61952

Never give anything by mouth to an unconscious person. Rinse mouth with water.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact riush eyes with water as a precaution.

5. FIRE-FIGHTING MEASURES

Flammable properties Flash point no data available

Ignition temperature no data available

Special protective equipment for fire-fighters

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Wear self contained breathing apparatus for fire fighting if necessary.

Personal precautions Avoid dust formation.

#### Environmental precautions Do not let product enter drains.

#### Methods for cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

#### protection. Storage

Eye protection Safety glasses

Sigma - 61952

Hygiene measures

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place, hygroscopic Store under inert gas.

(US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate

Contains no substances with occupational exposure limit values. Personal protective equipment

#### Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand protection For prolonged or repeated contact use protective gloves.

government standards such as NIOSH (US) or CEN (EU).

General industrial hygiene practice. Sigma-Aldrich Corporation

powder

no data available

no data available

301 °C (574 °F)

white

www.sigma-aldrich.com

### no data available Boiling point

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point Ignition temperature

Appearance Form

Colour

Safety data

Melting point

рΗ

Upper explosion limit no data available Water solubility no data available 10. STABILITY AND REACTIVITY Storage stability Stable under recommended storage conditions. Materials to avoid Strong oxidizing agents

Lower explosion limit no data available

LD50 Intravenous - mouse - 830 mg/kg Irritation and corrosion

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available Sensitisation no data available Chronic exposure

IARC:

Signs and Symptoms of Exposure

Potential Health Effects

Inhalation

Ingestion

no data available

no data available

13. DISPOSAL CONSIDERATIONS

Ecotoxicity effects

Skin

Eyes

Sigma - 61952

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

No component of this product present at levels greater than or equal to 0.1% is identified as

May be harmful if inhaled. May cause respiratory tract irritation.

May be harmful if absorbed through skin. May cause skin irritation.

Sigma-Aldrich Corporation

www.sigma-aldrich.com

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

probable, possible or confirmed human carcinogen by IARC.

Additional Information RTECS: DS5900000 12. ECOLOGICAL INFORMATION

May be harmful if swallowed.

May cause eye irritation.

no data available Further information on ecology

Elimination information (persistence and degradability)

Observe all federal, state, and local environmental regulations.

#### Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods

Not dangerous goods 15. REGULATORY INFORMATION

Not dangerous goods

IMDG

IATA

DSL Status

All components of this product are on the Canadian DSL list. WHMIS Classification Not WHMIS controlled.

### 16. OTHER INFORMATION Further information Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Not WHMIS controlled.

Sigma-Aldrich Corporation Sigma - 61952 Page 4 of www.sigma-aldrich.com