

Material Safety Data Sheet

Taurine

Section 1 - Product Identification

Synonyms : 2-aminoethanesulfonic acid
Molecular Weight : 125.15 g/mol
Chemical Formula : $C_2H_7NO_3S$
Company Identification : Tradeasia International Pte. Limited
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Section 2 – Composition/Information on Ingredients

Chemical Name	EC/CAS No	Purity, %
Taurine	203-483-8/107-35-7	>= 99

Section 3 – Hazards Identification

3.1 Classification of the substance or mixture

Not a hazardous substance or mixture

3.2 Label elements

Not a hazardous substance or mixture

3.3 Other hazards

NIL

Section 4 – First-Aid Measures

4.1. Description of first aid measures

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

4.2. Most important symptoms and effects, both acute and delayed

Most important known symptoms and effects are described in the labelling (section 3.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

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

5.2. Specific hazards arising from the chemical

Carbon Oxides, Nitrogen oxides (NO_x), sulphur oxides

5.3. Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further Information

Use water spray to cool unopened containers.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

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

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

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

Section 8 – Exposure Controls/Personal Protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Appropriate engineering controls

Handle accordingly with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile-rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN14387) respirator cartridges as a backup, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.4 Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance : White Solid

Odour : N.A.

Odour threshold : N.A.

pH @ 25°C : 4.5 – 6

Melting point : N.A.

Boiling point : N.A.

Flash point : N.A.

Evaporation rate : N.A.

Flammability : N.A.

Upper/lower flammability or explosive limits : N.A.

Vapour pressure : N.A.

Vapour density : N.A.

Relative density : N.A.

Solubility in water : 62.6 g/L at 20°C (completely soluble)

Partition coefficient: n-octanol/water : N.A.

Auto-ignition temperature : N.A.

Decomposition temperature : N.A.

Viscosity : N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Section 10 – Stability and Reactivity

10.1. Reactivity

N.A.

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

N.A.

10.4. Conditions to avoid:

Light

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – carbon oxides, nitrogen oxides, Sulphur oxides. In the event of fire, see section 5.

Other decomposition products – No data available.

Section 11 – Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat – > 5000 mg/kg

Skin corrosion/irritation

N.A.

Serious eye damage/eye irritation

N.A.

Respiratory or skin sensitisation

N.A.

Germ cell mutagenicity

N.A.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

N.A.

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Aspiration hazard

Additional Information

RTECS: WX0175000

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

Section 12 – Ecological Information

12.1. Toxicity

N.A.

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Other adverse effects

Section 13 – Disposal Considerations

13.1. Disposal methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14 – Transport Information

14.1. UN number : N.A

14.2. UN proper shipping name : Not dangerous goods

14.3. Transport of hazard classes : N.A

14.4. Packing group : N.A

14.5. Environmental hazards : ADR/RID: no, IMDG Marine pollutant: no, IATA-DGR: no

14.6. Special precautions for user : N.A

14.7. Incompatible materials: Strong oxidizing agents

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations for the substance/mixture

AICS: On the inventory, or in compliance with the inventory

DSL: All components of this product are on the Canadian DSL

ENCS: On the inventory, or in compliance with the inventory

ISHL: On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

NZIoC: Not in compliance with the inventory - Taurine

PICCS: On the inventory, or in compliance with the inventory

Section 16 : Additional Information

16.1. Disclaimer of Liability

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