SAFETY DATA SHEET

Preparation Date: 03/15/2015
Revision Date: 10/5/2018
Revision Number: G2

1. IDENTIFICATION

Product identifier
Product code: TA122
Product Name: TAURINE, REAGENT

Other means of identification
Synonyms: 2-Aminoethanesulfonic acid; 2-Aminoethylsulfonic acid; 2-Sulfoethyamine
CAS #: 107-35-7
RTECS #: WX0175000
Cl#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: No information available.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label elements

Warning

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
**Hazards not otherwise classified (HNOC)**
Not Applicable

**Other hazards**
Not available

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves
Wear eye/face protection

**Precautionary Statements - Response**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Precautionary Statements - Storage**
Store in a well-ventilated place. Keep container tightly closed
Store locked up

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taurine</td>
<td>107-35-7</td>
<td>100</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Product code:** TA122  
**Product name:** TAURINE, REAGENT
Most important symptoms and effects, both acute and delayed

Symptoms
- Causes serious eye irritation
- Moderate eye irritation
- Eye contact may result in redness or pain
- Causes skin irritation
- Moderate skin irritation
- Irritating to respiratory system

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical


Specific hazards: May be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

Product code: TA122  Product name: TAURINE, REAGENT
7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<td>107-35-7</td>
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</table>

Canada

<table>
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<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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Australia and Mexico

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<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Taurine</td>
<td>107-35-7</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses with side-shields. or Goggles

Product code: TA122   Product name: TAURINE, REAGENT
Skin and body protection: Chemical resistant apron
Long sleeved clothing
Gloves

Respiratory protection: Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
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<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Formula:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odorless.</td>
<td>No information available</td>
<td>C2H7NO3S</td>
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<table>
<thead>
<tr>
<th>Molecular/Formula weight (g/mole):</th>
<th>Flammability:</th>
<th>Flashpoint (°C/°F):</th>
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<td>125.14</td>
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<th>Autoignition Temperature (°C/°F):</th>
<th>Lower Explosion Limit (%):</th>
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<table>
<thead>
<tr>
<th>Upper Explosion Limit (%):</th>
<th>Melting point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
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<tr>
<td>No information available</td>
<td>300°C/572°F</td>
<td>325 °C/572-617 °F</td>
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<table>
<thead>
<tr>
<th>Boiling point/range(°C/°F):</th>
<th>Bulk density:</th>
<th>Density (g/cm3):</th>
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<td>No information available</td>
<td>1.7</td>
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<table>
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<tr>
<th>Specific gravity:</th>
<th>pH:</th>
<th>Vapor pressure @ 20°C (kPa):</th>
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<tbody>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaporation rate:</th>
<th>Vapor density:</th>
<th>VOC content (g/L):</th>
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<tbody>
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<td>No information available</td>
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<table>
<thead>
<tr>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Viscosity:</th>
</tr>
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<tbody>
<tr>
<td>No information available</td>
<td>log Kow = -3.36</td>
<td>No information available</td>
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<thead>
<tr>
<th>Miscibility:</th>
<th>Solubility:</th>
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<tr>
<td>No information available</td>
<td>Soluble in cold water</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product code:</th>
<th>Product name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA122</td>
<td>TAURINE, REAGENT</td>
</tr>
</tbody>
</table>
**Incompatible Materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

**Other Information**

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

### 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Principal Routes of Exposure:**
Ingestion. Inhalation.

**Acute Toxicity**

**Component Information**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
<th>LC50/inhalation/rat</th>
<th>LC50/inhalation/mouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taurine</td>
<td>107-35-7</td>
<td>&gt; 700 mg/kg Oral LD50 Rat; &gt; 5 g/kg Oral LD50 Rat</td>
<td>&gt; 7 g/kg Oral LD50 Mouse</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50/dermal/rabbit</td>
<td>LD50/dermal/rat</td>
<td>LD50/inhalation/rat</td>
<td>LC50/inhalation/mouse</td>
<td>Other LD50 or LC50 information = &gt; 7 g/kg Intramuscular LD50 Mouse; 6630 mg/kg Intraperitoneal LD50 Mouse; &gt; 2 g/kg Intravenous LD50 Dog; &gt; 7 g/kg Intravenous LD50 Mouse; &gt; 1 g/kg Intravenous LD50 Rabbit; &gt; 7 g/kg Intravenous LD50 Rat; 6 g/kg Subcutaneous LD50 Mouse</td>
</tr>
</tbody>
</table>

**Product Information**

<table>
<thead>
<tr>
<th>LD50/oral/rat</th>
<th>VALUE- Acute Tox Oral</th>
<th>LD50/oral/mouse</th>
<th>Value - Acute Tox Oral</th>
<th>LD50/dermal/rabbit</th>
<th>VALUE-Acute Tox Dermal</th>
<th>LD50/dermal/rat</th>
<th>VALUE - Acute Tox Dermal</th>
<th>LC50/inhalation/rat</th>
<th>VALUE-Vapor</th>
<th>VALUE-Gas</th>
<th>VALUE-Dust/Mist</th>
<th>LC50/Inhalation/mouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5000 mg/kg</td>
<td></td>
<td>&gt; 7000 mg/kg</td>
<td></td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Product code:** TA122  **Product name:** TAURINE, REAGENT
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes serious eye irritation.

**Inhalation** Irritating to respiratory system.

**Ingestion** Health injuries are not known or expected under normal use.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taurine</td>
<td>107-35-7</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Product code:** TA122

**Product name:** TAURINE, REAGENT
Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
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<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Taurine</td>
<td>107-35-7</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Class: No information available
- Packing Group: No information available
- Emergency Response Guide Number: No information available
- Marine Pollutant: No data available
- DOT RQ (lbs): No information available
- Special Provisions: No Information available
- Symbol(s): No information available
- Description: No information available

TDG (Canada)
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Marine Pollutant: No Information available
- Description: No information available

ADR
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Packing Group: No information available
- Subsidiary Risk: No information available

IMO / IMDG
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Marine Pollutant: No information available

Product code: TA122
Product name: TAURINE, REAGENT
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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</thead>
<tbody>
<tr>
<td>Taurine</td>
<td>107-35-7</td>
<td>Present</td>
<td>Present KE-01331</td>
<td>Present</td>
<td>Present (9)-801,(2)-1607</td>
<td>Present</td>
<td>Present</td>
<td>203-483-8</td>
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U.S. Regulations

Taurine
FDA - 21 CFR - Total Food Additives Present (not regulated under 21 CFR)
- List Sourced from EAFUS


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity:</th>
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<td>107-35-7</td>
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<td>Not Listed</td>
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CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tr>
<td>Taurine</td>
<td>107-35-7</td>
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<td>None</td>
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U.S. TSCA

Product code: TA122  Product name: TAURINE, REAGENT
Components | CAS-No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) - Health and Safety Reporting
--- | --- | --- | ---
Taurine | 107-35-7 | Not Applicable | Not Applicable

**Canada**

**WHIMIS 2015 - GHS Classifications**

WHIMIS 2015 Hazard Classification Information: The WHIMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation**

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**Inventory**

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<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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<td>107-35-7</td>
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<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
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<td>107-35-7</td>
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<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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**EU Classification**

**EU GHS - SV - CLP 1272/2008**

<table>
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<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
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**EU - CLP (1272/2008)**

**R-phrase(s)**

Not determined

**S-phrase(s)**

none

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<th>Safety Phrases</th>
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

not determined

**16. OTHER INFORMATION**

**Preparation Date:** 03/15/2015
**Revision Date:** 10/5/2018
**Prepared by:** Sonia Owen

**Product code:** TA122 **Product name:** Taurine, Reagent
Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet