

## Taurine

Version 1.0

Revision Date 10.06.2016

Issue Date 10.06.2016

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Taurine  
Substance name : Taurine  
Registration number : -  
CAS-No. : 107-35-7  
EC-No. : 203-483-8  
SDS Number : 67010EU

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Food/ feedstuff additives  
Recommended restrictions on use : None known.

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier/Distributor

Company : Mitsui Chemicals, Inc.  
Street address : 1-5-2, Higashi-Shimbashi, Minato-ku, Tokyo, 105-7122, Japan  
Responsible Department : Personal Care Materials Div.  
Telephone : +81-3-6253-3858  
Telefax : +81-3-6253-4236

##### Manufacturer

Company : Taisho MTC Ltd.  
Street address : 1-5-2, Higashi-Shimbashi, Minato-ku, Tokyo, 105-7122, Japan  
Telephone : +81-3-6253-3858  
Telefax : +81-3-6253-4236

#### 1.4 Emergency telephone number

Mitsui Chemicals, Inc.  
+81-3-6253-3858  
This telephone number is available during office hours only.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.2 Label elements

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.  
Although none of hazard statements are applicable, this product should be handled with following precautions.

Precautionary statements : **Prevention:**  
Obtain special instructions before use, and DO NOT handle until all safety precautions have been read and understood.

## Taurine

Version 1.0

Revision Date 10.06.2016

Issue Date 10.06.2016

Wash hands and face thoroughly after handling.  
Avoid release to the environment.

**Response:**

IF exposed or concerned, or if you feel unwell: Get medical advice/ attention.

**Disposal:**

Dispose of contents/container in accordance with local/regional/international regulations.

Do not reuse the container for any other purpose. Dispose of in accordance with applicable laws and regulations.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical name	CAS-No. EC-No.	Concentration
taurine	107-35-7 203-483-8	>=99%

No hazardous ingredients

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Wear appropriate personal protective equipment such as protective gloves, protective clothing, eye protection, face protection, respirator, safety shoes, etc.
- If inhaled : If you feel unwell, remove to fresh air immediately.  
Get medical attention if cough or other symptoms develop.
- In case of skin contact : Immediately remove contaminated clothing and shoes.  
Flush skin with large amounts of water, clean off with soap and water.  
Get medical attention if symptoms develop.
- In case of eye contact : Immediately flush eyes with plenty of water for several minutes.  
Part eyelids with fingers to assure complete flushing.  
Check for and remove contact lenses if easily possible.  
Get medical attention if irritation persists.
- If swallowed : Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Rinse mouth with water.  
Keep the affected person warm and at rest. Get medical attention immediately.

## Taurine

Version 1.0

Revision Date 10.06.2016

Issue Date 10.06.2016

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

No information available.

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

Notes to physician : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water jet, Water mist, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : none

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Emits toxic fumes under fire conditions.

Hazardous combustion products : Nitrogen oxides, sulfur oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Respiratory and eye protection required for fire-fighting personnel.  
Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

Further information : Remove all sources of ignition.  
Keep unnecessary and unprotected personnel away.  
Remove containers to safe place if possible.  
Fight fire from an upwind position.  
Keep surrounding areas cool by spraying water.

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## SECTION 6: Accidental release measures

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

Personal precautions : Wear appropriate personal protective equipment such as protective gloves, protective clothing, eye protection, face protection, respirator, protective boots, etc.  
Keep unnecessary and unprotected personnel away.  
Keep upwind, evacuate downwind.  
Wear appropriate personal protective equipment as specified in Section 8.  
Evacuate immediate area.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into sewer, river, or any body of water.

## Taurine

Version 1.0

Revision Date 10.06.2016

Issue Date 10.06.2016

### 6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up : Use only non-sparking tools.  
Vacuum or sweep up material and place in a disposal container.  
If the quantity is small, use an electric vacuum cleaner or broom to sweep and collect the product.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Technical measures : Refer to the "Engineering measures" in Section 8.  
Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wear appropriate personal protective equipment.  
Provide hand and eye wash station near work area. Wash thoroughly after handling.  
Use only in well-ventilated area. Keep away from heat, sparks, and flame.  
Use explosion-proof electrical equipment. Take precautions against build-up of electrostatic charges.  
Use in well-ventilated area. Avoid dust formation.
- Advice on safe handling : Do not handle until all safety precautions have been read and understood.  
Take precautionary measures against static discharge.  
Avoid dust formation.  
Do not breathe dust.
- Hygiene measures : Wash hands thoroughly after handling.  
Do not eat, drink, or smoke when using this product.

### 7.2 Conditions for safe storage, including any incompatibilities

- Conditions for safe storage : The floor must be protected from water and impermeable.  
The inventory location must be fire-resisting. Make the roof from nonflammable materials, and do not install the ceiling.  
Install appropriate facilities for lighting/ventilating.  
Store indoors.  
Ground and bond containers and equipment to prevent build-up of electrostatic charges.
- Materials to avoid : Strong oxidizers
- Avoidance of contact : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep away from heat, flame, and all sources of ignition.  
Store in a segregated and approved area.
- Suitable container and packaging materials for safe storage : PE-lined cardboard box, PE-lined fiber drum.

## Taurine

Version 1.0

Revision Date 10.06.2016

Issue Date 10.06.2016

### 7.3 Specific end use(s)

Specific use(s) : Food/ feedstuff additives

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Not established.

#### Biological occupational exposure limits

Not established.

### 8.2 Exposure controls

#### Engineering measures

Provide safety shower and eye wash station near work area.  
Provide general or local exhaust ventilation as necessary.

#### Personal protective equipment

Eye protection : Safety goggles, Eye shield, Face shield  
Hand protection : Protective gloves  
Skin and body protection : Protective suit, Safety shoes, Safety helmet, Apron  
Respiratory protection : Use suitable protective equipment as necessary.

#### Environmental exposure controls

General advice : Do not flush into sewer, river, or any body of water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : solid  
Form : crystalline or crystalline powder  
Colour : colourless or white  
Odour : almost odorless  
Odour Threshold : no data available  
pH : not applicable  
Melting point/freezing point : 300 - 310 °C  
Initial boiling point and boiling range : no data available  
Flash point : no data available  
Evaporation rate : no data available  
Flammability (solid, gas) : no data available  
Explosion limits : no data available  
Vapour pressure : no data available  
Relative vapour density : no data available  
Density : 1.67 g/cm<sup>3</sup>

## Taurine

Version 1.0

Revision Date 10.06.2016

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Solubility(ies)	:	[Water solubility] soluble in hot water [Solubility in other solvents] practically insoluble solvent: ethanol, ether
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available
Oxidizing potential	:	no data available

### 9.2 Other information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Dust may be ignite or explode by static electricity or other ignition sources.

### 10.4 Conditions to avoid

Heat

### 10.5 Incompatible materials

Strong oxidizers

### 10.6 Hazardous decomposition products

Nitrogen oxides, sulfur oxides

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product:

Acute oral toxicity	:	LD50 : > 2000 mg/kg
Acute dermal toxicity	:	no data available
Acute inhalation toxicity	:	no data available
Skin corrosion/irritation	:	no data available

## Taurine

Version 1.0

Revision Date 10.06.2016

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Serious eye damage/eye irritation	: no data available
Sensitisation	: no data available
Germ cell mutagenicity	: [Genotoxicity in vitro] Type: Ames test Result: negative
Carcinogenicity	: no data available
Reproductive toxicity	: no data available
STOT - single exposure	: Rat, female and male Oral toxicity test 1000mg/kg, 2000mg/kg No abnormality
STOT - repeated exposure	: Rat, female and male Repeated Oral toxicity test (90 days) 500mg/kg, 2000mg/kg No abnormality
Aspiration toxicity	: no data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

no data available

#### 12.2 Persistence and degradability

no data available

#### 12.3 Bioaccumulative potential

##### Product:

Partition coefficient:  
n-octanol/water : no data available

#### 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

##### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

no data available

## Taurine

Version 1.0

Revision Date 10.06.2016

Issue Date 10.06.2016

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Waste from residues : In accordance with local and national regulations.  
Dispose of wastes in an approved waste disposal facility.  
When outsourcing waste treatment, be sure to notify the treatment company regarding the hazards before outsourcing.
- Contaminated packaging : Empty the container completely before disposal.  
Do not reuse the container for any other purpose. Dispose of in accordance with applicable laws and regulations.

### SECTION 14: Transport information

#### 14.1 UN number

Not dangerous goods

#### 14.2 Proper shipping name

Not dangerous goods

#### 14.3 Transport hazard class

Not dangerous goods

#### 14.4 Packing group

Not dangerous goods

#### 14.5 Environmental hazards

Not dangerous goods

#### 14.6 Special precautions for user

Check the container for breakage, corrosion or leak.  
Do not fall, drop, or shock the container. Prevent collapse of the stack.  
Observe regulatory requirements of packaging, labeling and transportation.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be Transport in bulk.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	not applicable



## Taurine

Version 1.0

Revision Date 10.06.2016

Issue Date 10.06.2016

Regulation (EC) No 850/2004 on persistent organic pollutants	:	not applicable
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### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

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### SECTION 16: Other information

#### Full text of other abbreviations

PBT : Persistent, Bioaccumulative and Toxic.  
vPvB : very Persistent and very Bioaccumulative.

#### Further information

List of references : In-house data  
Information acquired by literature documentation

**This document is a SAFETY INFORMATION SHEET according to Article 32 of regulation EC No. 1907/2006 REACH.**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.