



QIANJIANG YONGAN PHARMACEUTICAL CO., LTD

No. 2 Guangze Avenue, Qianjiang Economy Development Zone, Qianjiang, Hubei, China

Tel: +86-728-6201636 Fax: +86-728-6204008 Website: www.chinataurine.com

Material Safety Data Sheet

Taurine

Section 1-Chemical Product and Company Identification

Sample name: Taurine

Recommended Uses: Additive for pharm/food/feed

Company Identification: QIANJIANG YONGAN PHARMACEUTICAL CO., LTD.

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Section 2- Hazards Identification

2.1 Classification of the substance or mixture .

Hazard description:

Information concerning particular hazards for human and environment:

Classification according to regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity-single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Irritation to eyes, respiratory system and skin.

2.2 Label elements :

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental hazard statements None

Labeling according to EU Directive 67/548/EEC as amended.

R36/37/38 Irritation to eyes, respiratory system and skin.

S-phrases)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 Water suitable protective clothing.

2.3 Other hazards: None.



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Section 3- Composition, information on ingredients

3.1 General Chemical Description:

Chemical Name	Percent (by weight)	CAS No.	EC#
Taurine	100%	107-35-7	203-483-8

Molecular Formula: C₂H₇NO₃S

Molecular Weight: 125.15

Synonymous Name: 2-Aminoethanesulfonic acid;

Section 4- First aid measures

4.1 Description of first aid measures :

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation

In case of unconsciousness place patient stably in side position for transportation.

In case of skin contact

Immediately wash with water and soap and rinse thoroughly. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Rinse out mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5- Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon oxides

Sulphur oxides

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5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available.

Section 6- Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Please view below.

Section 7- Handling and storage**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No data available.

7.4 Information for safe handling

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

7.5 Information about fire and explosion protection

Keep ignition sources away - Do not smoke.

Normal measures for preventive fire protection.

7.6 Information about storage in one common storage facility

Store away from flammable substances.

Store away from oxidizing agents.

7.7 Incompatibilities

Not available.

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Section 8- Exposure controls/personal protection**8.1 Control parameters**

Components with workplace control parameters.

8.2 Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Ingredients with limit values that require monitoring at the workplace

Not required.

8.4 Personal protective equipment**General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Skin protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Safety glasses with side-shields.

Body protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



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Section 9- Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	White crystalline powder
b)	Odour	Sourish
c)	Odour Threshold	No data available
d)	pH	4.1-5.6
e)	Melting point/freezing point	Melting point/range: >300°C
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	Not flammable
j)	Flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	100 g/l at <25°C
o)	Partition coefficient (n-octanol/water)	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
u)	Bulk density	0.65-0.75g/ml
v)	Tap density	0.9-0.95g/ml

9.2 Other safety information

No data available

Section 10- Stability and reactivity

10.1 Chemical stability

Stable under recommended storage conditions.

10.2 Reactivity

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Excess heat, dust generation, incompatible materials

10.5 Incompatible materials

Strong oxidizing agents

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10.6 Dangerous reactions

No dangerous reactions known.

10.7 Hazardous decomposition products:Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx).
Sulphur oxides.**Section 11- Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

LD/LC50 Oral-rat: >5000mg/kg

Primary irritant effect**On the skin:** Irritant to skin and mucous membranes.**On the eye:** Irritating effect.**Sensitization:** Sensitization possible.**Toxicokinetics, metabolism and distribution:** Not available.**Acute effects (acute toxicity, irritation and corrosivity)**

Not available.

Repeated dose toxicity

Not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Not available.

Section 12- Ecological information**12.1 Toxicity**

No data available.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Additional ecological information:**General notes:** Generally not hazardous for water



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Section 13- Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation Disposal must be made according to official regulations.

Section 14- Transport information

14.1 Land transport ADR/RID (cross-border)

ADR/RID class:	-
Danger code (Kemler):	-
UN-Number:	-
Packaging group:	-
Hazard label:	-
Description of goods:	-
Limited quantities (LQ):	-
Transport category:	-
Tunnel restriction code:	-

14.2 Maritime transport IMDG

IMDG Class:	-
UN Number:	-
Label:	-
Packaging group:	-
EMS Number:	-
Marine pollutant:	No
Proper shipping name:	-

14.3 Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:	-
UN/ID Number:	-
Label:	-
Packaging group:	-
Proper shipping name:	-

14.4 UN "Model Regulation": -

Environmental hazards: Not available.

Special precautions for user: Not available.

Transport in bluk according to Annex II of MARPOL73/78 and the IBC Code
Not available.

Section 15- Regulatory Information

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

No data available.

Section 355(extremely hazardous substances): Substance is not listed.**Section 313(Specific toxic chemical listings):** Substance is not listed.**TSCA(c):** Substance is listed.**15.2 Proposition 65****Chemicals known to cause cancer**

Substance is not listed.

Chemicals known to cause reproductive toxicity for females

Substance is not listed.

Chemicals known to cause reproductive toxicity for males

Substance is not listed.

Chemicals known to cause developmental toxicity

Substance is not listed.

Carcinogenicity categories**EPA(Environmental Protection Agency)**

Substance is not listed.

IARC(International Agency for Research on Cancer)

Substance is not listed.

NTP(National Toxicology Program)

Substance is not listed.

TLV(Threshold Limit Value established by ACGIH)

Substance is not listed.

MAK(German Maximum Workplace Concentration)

Substance is not listed.

NIOSH-Ca(National Institute for Occupational Safety and Health)

Substance is not listed.

15.3 National regulations**Waterhazard class**

Generally not hazardous for water.

Other regulations, limitations and prohibitive regulations**Candidate list of Substances of very high concern (SVHC) according to ECHA (18/6/2010)**

Substance is not listed.

REACH Regulation Annex XVII Restriction List

Substance is not listed.

REACH Regulation Annex XIV Authorization Recommendation List

Substance is not listed.

Chemical safety assessment

Not available.



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Section 16- Additional Information

The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1272/2008. REGULATION (EC) No 1907/2006 and EU Commission Directive 1999/45/EC. 67/548/EEC.

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• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road}

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: lethal concentration. 50 percent

LD50: Lethal dose. 50 percent .

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