

Safety information sheet

Version: 1.0 EN

Taurine powder

Article number: D10554

This document has been prepared as a communication tool to inform downstream users about both the status of the substance under REACH and CLP, some of its essential properties and the guidance on safe use. An extended safety data sheet (SDS) is not required for this substance under Article 31 of REACH Regulation (EC) No 1272/2008, including the amending Regulation (EU) 2020/878. As a result, the format and content of this document does not comply with the framework for safety data sheets set out in Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.

1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	Taurine
CAS number	203-483-8
EC number	107-35-7
REACH registration	-

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

Description/use	Taurine is used as a functional ingredient in dietary supplements, beverages and fortified foods. Due to its good tolerability, taurine is suitable for a wide range of applications. For further information on specific applications, please contact us at the telephone number provided – we will be happy to put you in touch with the relevant specialist department.
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1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Adress	Brookdeich 40 21029 Hamburg Germany
Telephone	+49 40 609 2387 60
E-Mail	info@distrebution.com

1.4 Emergency number

+49 40 609 2387 60 (Business hours: Mon - Thu: 8 a.m.- 5 p.m. / Fri: 8 a.m. – 4 p.m.)

2 Potential hazards

2.1 Classification of the substance or mixture

Not classified according to Chemicals Regulation (EC) Nr.1272/2008.

2.2 Label elements

Not subject to classification according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance is neither a PBT nor a vPvB substance.

3 Composition/information on ingredients

Chemical	Taurine
characterization:	
CAS number	203-483-8
EC number	107-35-7
REACH registration	-
Hazardous ingredients	-
Nanoparticles	No nanoparticles according to Regulation (EU) 2018/1881

4 First-aid measures

4.1 Description of first-aid measures

In case of emergency, seek medical attention.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical advice.

After skin contact

Wash thoroughly with plenty of soap and water. Remove contaminated clothing.

Inhalation or ingestion

Ensure adequate fresh air. Rinse mouth. Do not induce vomiting. Seek medical advice if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None known.

5 Firefighting measures

5.1 Extinguishing agents

Suitable extinguishing agents

Water, foam, alcohol-resistant foam, fire extinguishing powder

Unsuitable extinguishing agents

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: see Section 10. Deposited combustible dust may pose a significant explosion hazard.

Hazardous combustion products: nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), sulphur oxides (SO_x).

5.3 Advice to firefighters

Avoid inhaling fire and explosion gases.

Adapt extinguishing measures to the surroundings.

Do not allow extinguishing water to enter drains or waterways.

Collect contaminated extinguishing water separately.

Carry out firefighting operations while maintaining the usual safety distances.

Protective equipment for firefighting

Wear self-contained breathing apparatus.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel not trained for emergencies

Ventilate the affected area sufficiently. Avoid dust formation. Remove ignition sources if possible without risk. Do not inhale dust. Avoid contact with eyes and skin.

Wear suitable personal protective equipment (see Section 8).

Emergency responders

Use respiratory protective equipment in case of exposure to vapours, dust, aerosols or gases.

6.2 Environmental precautions

Prevent penetration into waterways or drains. Retain contaminated wash water and dispose of it properly. In case of release into waterways or sewers, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Collect spilled material mechanically, collect in sealed containers and dispose of in accordance with local regulations. Ventilate the affected area well.

6.4 Reference to other sections

See section 5 for information on hazardous combustion products.

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 10 for information on incompatible materials.

See section 13 for information on disposal.

7 Handling and storage

7.1 Precautions for safe handling

Measures to prevent fires and aerosol and dust formation

Ensure adequate general and local ventilation.

Keep away from sources of ignition. No smoking.

Specific information

Dust deposits may accumulate on surfaces in the work area.

Handling incompatible substances

Do not mix with alkalis.

Environmental protection measures

Avoid release into the environment.

Hygiene measures at the workplace

Do not eat, drink or smoke in work areas.

Remove contaminated clothing and protective equipment before breaks.

Do not inhale dust.

Avoid contact with eyes and skin.

Wash hands after work.

Preventive skin protection is recommended..

7.2 Conditions for safe storage, including any incompatibilities

Explosive atmospheres

Avoid dust deposits.

Fire and ignition hazards

Keep away from sources of ignition. No smoking.

Incompatible substances

Store separately from oxidising agents.

Incompatible materials: see Section 10.

Protection from external influences

Protect from heat and moisture.

Storage conditions

Store in a dry, cool and well-ventilated place.

Keep container tightly closed.

Protect from direct sunlight.

Ventilation

Ensure adequate ventilation.

Packaging

Store only in original container..

7.3 Specific end uses

No information available.

8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

No information available.

8.2 Limitation and monitoring of exposure

8.2.1 Appropriate engineering controls

Ensure adequate local and general ventilation. Avoid dust and aerosol formation. Handling should be carried out in accordance with general occupational hygiene and standard safety precautions.

8.2.2 Personal protective equipment

Respiratory protection

Wear suitable respiratory protection if ventilation is inadequate or dust is generated. A P2 particle filter device in accordance with DIN EN 143 (filter efficiency $\geq 94\%$, identification colour: white) is recommended.

Hand protection

Wear suitable chemical protection gloves. Nitrile (NBR, acrylonitrile butadiene rubber) protective gloves with a material thickness ≥ 0.11 mm and a breakthrough time of > 480 minutes (permeation level 6) are recommended. Check gloves for leaks and damage before use. Use gloves in accordance with EN 374. For special applications, consultation with the glove manufacturer is recommended.

Eye protection

Wear safety goggles or face protection.

Body and skin protection

Wear suitable protective clothing. Avoid skin and eye contact.

Other protective measures

Use suitable containers to avoid environmental contamination.
Prevent penetration into drains, surface water and groundwater.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Solid powder
Colour	White to creamy white
Odour	Odourless
pH value	No data available
Melting point	> 300°C
Boiling point	Not determined
Flash point	No data available
Evaporation rate	No data available
Flammability	This material is combustible but not highly flammable
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Density	Approx. 1.72 g/cm ³ at 20°C
Relative vapour density	No data available
Partition coefficient n-octanol/water (log value)	-1.3 (pH value approx. 6, 20°C)
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Particle size/distribution	No data available
Solubility	Water solubility: 65g/l at 12°C

9.2 Other information

Information on physical hazard classes	Hazard classes according to GHS (physical hazards): not relevant
Other safety-related properties	No information available

10 Stability and reactivity

10.1 Reactivity

Not reactive under normal processing conditions.

10.2 Chemical stability

Stable when stored and handled properly and under normal temperature and pressure conditions.

10.3 Possibility of hazardous reactions

Dust explosion hazard if fine particles form and accumulate.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. The product is not dust explosive in the form in which it is supplied; however, the accumulation of fine dust may pose a dust explosion hazard.

10.5 Incompatible materials

Bases, oxidising agents

10.6 Hazardous decomposition products

Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), sulphur oxides (SO_x)

11 Toxicological information

11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008

Acute oral toxicity	LD50 (rat, oral) > 2,000 mg/kg (OECD 401)
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Skin corrosion/irritation	Not irritating/corrosive to skin
Serious eye damage/irritation	Not irritating/corrosive to eyes
Respiratory or skin sensitization	Not sensitising to skin
Germ cell mutagenicity	Not mutagenic
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	Not hazardous if aspirated

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Further information

No data available

12 Environmental information

12.1 Toxicity

NOEC (algae, *Pseudokirchneriella subcapitata*, 72 h): > 100 mg/l (OECD 201)

12.2 Persistence and degradability

The substance is readily biodegradable. Degradation rate (OECD 301 F): 70% within 28 days.

12.3 Bioaccumulative potential

Distribution coefficient n-octanol/water (log KOW): -1.3 (pH ~6, 20 °C).

No relevant bioaccumulative potential is expected.

12.4 Mobility in soil

No data available

12.5 Results of the PBT and vPvB assessment

The substance is not PBT/vPvB.

12.6 Endocrine-disrupting properties

No data available

12.7 Other harmful effects

No data available

12.8 Additional information

Water hazard class (WGK): 2

13 Disposal instructions

13.1 Waste treatment methods

Product disposal

Dispose of contents and container in accordance with local, regional, national and international regulations.

Disposal of packaging

Dispose of empty containers and waste safely. Contaminated packaging must be disposed of in the same way as the product.

14 Transport information

14.1 UN number

No data available

14.2 Proper UN shipping name

No data available

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14.3 Transport hazard classes

No data available

14.4 Packing group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

14.7 Transport in bulk by sea according to IMO regulations

No data available

15 Legislation

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

EU legislation

No restrictions according to REACH Annex XVII.

Not listed in REACH Annex XIV (SVHC).

Not covered by the Seveso Directive.

Not listed under RoHS, ODS, PIC or POP.

National regulations (Germany)

Water hazard class (WGK): 2

Identification number: 7109

Storage class according to TRGS 510: LGK 11 (combustible solids).

15.2 Chemical safety assessment

No substance safety assessment has been carried out for this substance.

16 Other information

16.1 Abbreviations and acronyms

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

RID – Regulations concerning the International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA – International Air Transport Association

GHS – Globally Harmonised System of Classification and Labelling of Chemicals

EINECS – European Inventory of Existing Commercial Chemical Substances

CAS – Chemical Abstracts Service

EC50 – Effective concentration, 50%

LC50 – Lethal concentration, 50%

LD50 – Lethal dose, 50%

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

PBT – Persistent, bioaccumulative and toxic

vPvB – Very persistent and very bioaccumulative

16.2 SVHC

The substances on the ECHA list (<http://echa.europa.eu/en/candidate-list-table>) are neither expected to be present in our products nor are they intentionally used in the production process. Our products do not come into contact with these substances during production. However, it is not possible to completely rule out traces of these substances: due to natural impurities or raw material-related properties, an unintentional content of less than 0.1% cannot be completely ruled out.

16.3 Note for users

The information in this data sheet is based on our current knowledge at the time of the last revision. The user is responsible for checking the suitability and completeness of the information in relation to the specific use of the product.

This document does not constitute a guarantee for specific properties of the product. As we have no direct influence on the use of the product, the user is obliged to comply with all applicable laws, regulations and safety and hygiene provisions on his own responsibility. We accept no liability for improper use. Personnel entrusted with the handling of chemicals must be appropriately trained.