



滕州市奥龙精细化工有限公司

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Material Safety Data Sheet

Aolong Calcium Benzoate

| | | | |
|---------|----------------|----------------|------------------------------|
| Version | MSDS Number: | Revision Date: | Date of Initial Preparation: |
| 4.0 | AL09-BJSG-2024 | 2024-11-26 | 2014-11-25 |

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

1.1 Product identifiers

| | |
|-----------------|---------------------------|
| Product name | : Aolong Calcium Benzoate |
| Product CAS-No. | : 2090-05-3 |
| Substance name | : Calcium Benzoate |

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

| | |
|----------------------|---|
| Identified uses | : Food additive Pharmaceutical supplement Industrial applications |
| Uses advised against | : No information available |

1.3 Details of the supplier of the material safety data sheet

| | |
|--|---|
| Company | : TENGZHOU AOLONG CHEMICAL CO., LTD. JISUO INDUSTRIAL ZONE, TENGZHOU CITY, SHANDONG PROVINCE, CHINA |
| Telephone | : 0632-5577516 |
| E-mail address of person responsible for the SDS | : info@aolongchem.com |

1.4 Emergency telephone

| | |
|-------------------|------------------------------------|
| Emergency Phone # | : 86-632-5577516 86-18606324038 |
|-------------------|------------------------------------|

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Serious eye damage/eye irritation : Category 2A, H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Hazard pictogram :



Signal word : Warning

Hazard statement(s) : H319 Causes serious eye irritation.

Precautionary statement(s) : P264 Wash hands thoroughly after handling.
P280.4 Wear protective gloves/protective clothing and eye/face protection.
P305+P351+P338 IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

SECTION 3: Composition / information on ingredients

3.1 Substances

Substance name : Calcium Benzoate

Components

| | |
|-----------------------|-----------------------|
| Formula | : $C_{14}H_{10}CaO_4$ |
| Molecular weight | : 282.32 g/mol |
| CAS-No. | : 2090-05-3 |
| EC-No. | : 218-235-4 |
| Concentration (% w/w) | : 100 |

No components need to be disclosed according to the applicable regulations.

Aolong is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Aolong's Material Safety Data Sheets (MSDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- | | |
|-------------------------|--|
| General advice | : When symptoms persist or in all cases of doubt seek medical advice. Show this Material safety data sheet to the doctor in attendance. |
| If inhaled | : After inhalation: fresh air. |
| In case of skin contact | : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| In case of eye contact | : After eye contact: rinse out with plenty of water. Remove contact lenses. |
| If swallowed | : After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. |

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: First aid measures

5.1 Extinguishing media

- | | |
|--------------------------------|--|
| Suitable extinguishing media | : Dry powder Foam Water spray Carbon dioxide (CO ₂) |
| Unsuitable extinguishing media | : High volume water jet |

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Calcium oxide
Combustible
Development of hazardous combustion gases or vapours possible in the event of fire

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:
Avoid inhalation of dusts.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains.
Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7 and 10).
Take up dry.
Dispose of properly.
Clean up affected area.
Avoid generation of dusts.

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep container closed when not in use.

| | |
|---|---|
| | <p>Avoid contact with skin, eyes and clothing.</p> <p>Ensure adequate ventilation.</p> <p>Use with local exhaust ventilation.</p> <p>Avoid dust formation.</p> <p>Ensure that eyewash stations and safety showers are close to the workstation location.</p> |
| Advice on protection against fire and explosion | <p>: Minimize dust generation and accumulation.</p> <p>Use explosion-proof electrical equipment.</p> <p>Take precautionary measures against static discharges.</p> <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.</p> <p>No smoking.</p> |
| Hygiene measures | <p>: Do not eat, drink or smoke when using this product.</p> <p>Wash hands after handling.</p> |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|--|
| Requirements for storage areas and containers | <p>: In accordance with local and national regulations.</p> <p>Keep containers tightly closed in a dry, cool and well-ventilated place.</p> <p>Avoid moisture.</p> <p>Store in original container.</p> <p>Keep away from heat and sources of ignition.</p> |
|---|--|

7.3 Specific end use(s)

| | |
|-----------------|---|
| Specific use(s) | <p>: Apart from the uses mentioned in section 1.2 no other specific uses are stipulated</p> |
|-----------------|---|

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Use explosion-proof equipment.

Ensure adequate ventilation.

Local/general ventilation.

Showers.

Eyewash stations.

Personal protective equipment

Eye protection : Wear safety glasses with side shields (or goggles).

| | |
|--|---|
| Hand protection | |
| Material | : Wear suitable gloves. |
| Material | : butyl-rubber |
| Material | : Nitrile rubber |
| Material | : Neoprene |
| Material | : PVC |
| Remarks | : Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. |
| Skin and body protection | : Wear suitable protective clothing. |
| Respiratory protection | : No protective equipment is needed under normal use conditions. Respirator must be worn if exposed to dust. |
| Filter type | : P2 filter |
| Environmental exposure controls | |
| Water | : Try to prevent the material from entering drains or water courses. |
| General hygiene considerations | |
| Handle in accordance with good industrial hygiene and safety practice. | |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Appearance | : Solid Granules Crystalline powder |
| Color | : White |
| Odor | : Benzoic acid (Slight) |
| pH | : 5.5 - 7.0 at 100 g/l at 20 °C (68 °F) |
| Melting point/freezing point | : 121,5 - 123,5 °C |
| Boiling point/boiling range | : No data available |
| Flash point | : No data available |
| Evaporation rate | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |
| Lower explosion limit / Lower | : No data available |

flammability limit
Vapor pressure : No data available
Relative vapor density : No data available
Relative density : No data available
Density : No data available
Bulk density : No data available

Solubility(ies)

Water solubility : 27.2g/L - soluble
Partition coefficient: : No data available
n-Octanol/water
Autoignition temperature : No data available
Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Explosive properties : Not classified as explosive
Oxidizing properties : None

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.
Violent reactions possible with: strong oxidising agents

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.

Avoid moisture.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Acids

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

No skin irritation.

Product:

Remarks : No skin irritation.

Serious eye damage/eye irritation

No eye irritation.

Product:

Remarks : No eye irritation.

Respiratory or skin sensitization

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Experience with human exposure**Product:**

Inhalation : Remarks: None known.
Skin contact : Remarks: No skin irritation.
Eye contact : Remarks: No eye irritation.
Ingestion : Remarks: None known.

Further information**Product:**

Remarks : None known.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

Toxicity to algae : No data available
Toxicity to bacteria : No data available

Persistence and degradability**Product:**

Biodegradability : aerobic - Exposure time 28 d
Result: 99 % - Readily biodegradable.
(Directive 67/548/EEC Annex V, C.4.A.)

Bioaccumulative potential**Product:**

Bioaccumulation : No data available

Mobility in soil**Product:**

Mobility : No data available

Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

- | | | |
|------------------------|---|--|
| Waste from residues | : | In accordance with local and national regulations. Do not dispose of waste into sewer. |
| Contaminated packaging | : | In accordance with local and national regulations. The hazard and precautionary statements displayed on the label also apply to any residues left in the container. |
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SECTION 14: TRANSPORT INFORMATION

- | | | |
|---------------------|---|--|
| DOT (US) | : | Not dangerous goods |
| TDG | : | Not regulated |
| MEX | : | Not regulated |
| ICAO (air) | : | Not regulated |
| IMDG | : | Not dangerous goods |
| IATA | : | Not dangerous goods |
| Further information | : | Not classified as dangerous in the meaning of transport regulations. |
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SECTION 15: REGULATORY INFORMATION

National regulatory information

The ingredients of this product are reported in the following inventories:

- | | | |
|-------|---|--|
| TCSI | : | On the inventory, or in compliance with the inventory |
| TSCA | : | All substances listed as active on the TSCA inventory |
| AIIC | : | 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 |
| PICCS | : | On the inventory, or in compliance with the inventory |
| IECSC | : | On the inventory, or in compliance with the inventory |
| NZ1oC | : | On the inventory, or in compliance with the inventory |

SECTION 16: Other information

Full text of other abbreviations

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Full text of H-Statements referred to under sections 2

H319 Causes serious eye irritation

Disclaimer

The information provided in this Material 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.