

Material Safety Data Sheet

Section 1 Identification

Trisodium Dicarboxymethyl Alaninate

Chemical name :

Methylglycine N,N-diacetic acid, trisodium salt; Alanine, N,N-bis(carboxymethyl)-, trisodium salt;

CAS-No. : 164462-16-2

Uses of product: Water treatment chemicals, detergents, scale inhibitor, etc.

Company name: JINING GREEN MOUNTAIN CHEMICAL CO.,LTD.

Address: Jining, Shandong Province, China

For emergency or additional info. +86-537-227 5079

Section 2 Hazards Identification

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Classification

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

GHS risk Category: Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

Pictogram: /

Precautionary Statements - Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 Composition/Information on Ingredients

Chemical name	CAS No.	Component content
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	164462-16-2	$\geq 80.0\%$
Trisodium nitrilotriacetate	5064-31-3	$\leq 0.1\%$

Section 4 First Aid Measures

Skin contact: Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice.

Eye contact: separate eyelid, flush with flowing water or normal saline. Seek medical attention immediately.

Ingestion: Gargle, do not induce vomiting. Seek medical attention immediately.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician immediately.

Advice to protect the rescuer: Move the patient to a safe location. Consult your doctor. Show this chemical safety specification to the on-site doctor.

Section 5 Fire Fighting Measures

Fire extinguishing agent:

Use water spray, dry powder, foam extinguishing agent to extinguish the fire.

Avoid the use of direct running water, which may cause splashing of flammable liquids and spread the fire.

Unsuitable extinguishing media for safety reasons:

carbon dioxide.

Special risk:

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Fire-fighting Precautions and Protective measures:

Fire fighters shall wear respirators and full - body fire suits to put out the fire upwind. Remove the container from the fire as much as possible into an open area.

Evacuate immediately if containers in the fire are discolored or emit sound from the safety relief device.

Section 6 Accidental Release Measure

Personal precautions

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas.

Avoid breathing dust. Eliminate all ignition sources.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up

Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques.

Section 7 Handling and Storage

Handling

Precautions for safe handling:

Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Always wash hands after handling the product. Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures. Avoid dust formation.

Hygiene measures:

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible materials: Amphoteric metals, light metals.

Section 8 Exposure Controls/Personal Protection

Engineering Controls: Provide safe shower and eye washing facilities. Mechanical exhaust required. Emergency evacuation routes and necessary evacuation areas shall be set up.

Respiratory protection: When the concentration in the air exceeds the limit, use a full-face supplied air respirator.

Eye protection: Goggles or Safety glasses with side-shields

Hand Protection: Wear impervious chemical resistant gloves.

Body protection: Protective work clothing.

General safety and hygiene measures:

Wearing of closed work clothing is required additionally to the stated personal protection equipment.

No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

Section 9 Physical and Chemical Properties

Appearance and appearance: solid

Odour: product specific

Colour: slightly yellowish

PH value: 10.5~12.5 (1% aqua solution)

Melting point/freezing point (°C) : No data available

Boiling point, initial boiling point and boiling range (°C) : No data available

Spontaneous combustion temperature (°C) : No data available

Flash point (°C) : No data available

Decomposition temperature (°C) : No data available

Saturation vapor pressure (kPa) : No data available

Flammability (solid, gas) : no data available

Relative density (water in 1) : No data available

Vapor density (air in 1) : no data available

Odor threshold (mg/m³) : No data available

Solubility: Soluble in water, > 500 g/l @24°C

Viscosity: no data available

Section 10 Stability and Reactivity

Stability:

The product is stable under recommended storage and handling conditions.

Possibility of hazardous reactions:

Under normal circumstances, no harmful reactions occur.

Conditions to avoid:

Humidity. Avoid dust formation.

Corrodes metals in the presence of water or moisture.

Incompatible substances:

amphoteric metals, light metals

Dangerous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

Acute toxicity:

LD50(rat, Oral) > 2000 mg/kg;

LC50(rat, Inhalation, 6h) No data available;

LD50(rat, Dermal): > 2000 mg/kg;

Skin corrosion/irritation: No data available;

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available

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: No data available

Section 12 Ecological Information

Ecotoxicity:

Acute toxicity test of fish: No data available

Daphnia acute activity inhibition test: No data available

Algal growth inhibition test: No data available

Toxicity to microorganisms: No data available

Persistence and degradation: no data available.

Bioaccumulation or bioaccumulation: no data available.

Migration in soils: no data available.

Section 13 Disposal Considerations

Waste chemicals: Recycle whenever possible. If it cannot be recycled, incineration is recommended for disposal. This product shall not be disposed of by means of drainage.

Contaminated packaging: Return the container to the manufacturer or dispose of it in accordance with national and local regulations.

Attention to waste: Before disposal of waste should refer to the relevant national and local regulations.

Section 14 Transport Information

UN Number: not subject to transport regulations

UN proper shipping name: /

Classification of transportation hazards: /

Packaging categories: /

Section 15 Regulatory Information

Listed in the regulations below:

CHINA - China Inventory of Existing Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

ENCS - Japan Existing and New Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

Section 16 Additional Information

The above information is considered correct but does not claim to be complete and should be used only as a guide. The information in this document is based on our current knowledge and applies to the appropriate safety precautions for the product. It does not represent any guarantee of the performance of the product.

The Company and its subsidiaries shall not be liable for any damage caused by handling or contact with the above products. Please refer to the back of the invoice or packing list for additional terms of sale.