

# Material Safety Data Sheet

## Part 1 Chemicals and enterprise identification

Chemical Name: Benzalkonium Chloride Powder

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

Address: Jining, Shandong Province, China

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

## Part 2 Hazard identification

### GHS risk Category:

Acute toxicity, Oral (Category 4), H302

Skin corrosion/irritation (Category 1B), H314

Serious eye damage/eye irritation (Category 1), H318

Hazardous to the aquatic environment - acute hazard (Category 1), H400

Hazardous to the aquatic environment - chronic hazard (Category 1), H410

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

### Pictogram:



**Warning: Danger**

### Hazard Statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

### Precautionary Statements

#### Prevention

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P391 Collect spillage.

## Part 3 Component/component information

Name of substance:

Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides;  
Alkyl(C=12-14)(benzyl)(dimethyl)ammonium chlorides;  
CAS No.: 85409-22-9;  
EC No.: 287-089-1;

## Part 4 First aid measures

### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

### Urgent rescue:

**Inhalation:** If inhaled, remove to fresh air.

**Skin contact:** Remove contaminated clothing and rinse skin thoroughly with soap and water. If you feel unwell, 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.

**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.

## Part 5 Fire protection measures

### Fire extinguishing agent:

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

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

**Special risk:** no data available.

### 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.

Isolate the scene of the accident and keep out irrelevant personnel. Collect and treat fire water to prevent environmental pollution.

## Part 6 Emergency response to leaks

### Operating personnel protective measures, protective equipment and emergency disposal procedures:

It is recommended that emergency responders wear respirators, antistatic clothing and rubber oil-resistant gloves.

Do not touch or cross the spill.

All equipment used in the operation shall be earthed.

Cut off the source as much as possible.

Eliminate all ignition sources.

### Environmental protection measures:

Absorb leakage and avoid polluting the environment. Prevent leakage into sewers, surface water and groundwater.

### Methods of receiving and removing spilled chemicals and materials used for disposal:

Small leakage: Collect leaking liquids in airtight containers where possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place. Do not flush into drains.

Large leakage: levee or pit. Seal the drain. Cover with foam to inhibit evaporation. Transfer to tank truck or special collector with explosion-proof pump, recover or transport to waste disposal site.

## **Part 7 Operation Disposal and storage**

### **Operational Considerations:**

Operators should be specially trained and strictly abide by the operating rules.

Handling should be performed in areas with partial or full ventilation facilities.

Avoid contact between eyes and skin, and avoid inhalation of steam.

Keep away from fires and heat sources. Smoking is strictly prohibited in the workplace.

If canning is needed, the flow rate should be controlled and there should be a grounding device to prevent the accumulation of static electricity.

Avoid contact with prohibitions such as oxidants (see Part 10).

Handle with care to prevent damage to packing and container.

Equipped with the appropriate variety and quantity of fire fighting equipment and leakage emergency treatment equipment.

### **Precautions for storage:**

Store in a cool, ventilated warehouse.

The temperature should not exceed 37°C.

Keep separate from oxidants and edible chemicals, and avoid mixing them (see Part 10 for prohibited substances).

Keep container sealed.

Keep away from fire and heat.

Explosion-proof lighting and ventilation are adopted.

Do not use spark-prone equipment and tools.

The storage area shall be equipped with leakage emergency treatment equipment and appropriate containment materials.

## **Part 8: Contact control/personal protection**

Engineering control:

Closed operation to prevent leakage.

Enhance ventilation.

Set up automatic alarm device and emergency ventilation facilities.

Emergency evacuation routes and necessary evacuation areas shall be set up.

Provide safe shower and eye washing facilities.

Personal protective Equipment:

Respiratory protection: When the concentration in the air exceeds the limit, wear a filter type gas mask (half mask).

Hand protection: Wear rubber oil - resistant gloves.

Eye protection: Wear chemical safety eye protection.

Skin and body protection: Wear permeable protective clothing.

## **Part 9 Physical and chemical properties**

Appearance and appearance: white powder

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) : more than 100

Decomposition temperature (°C) : No data available  
Evaporation rate [butyl acetate in 1] : 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  
N-octyl alcohol/water partition coefficient (LG P) : no data available  
Viscosity: no data available

## Part 10 Stability and reactivity

Stability: The product is stable when stored and used at normal ambient temperature.

Hazard response: No data available.

Avoid contact conditions: electrostatic discharge, heat, moisture, etc.

Banned substances: strong oxide, strong acid, strong base.

Dangerous decomposition products: no data available.

## Part 11 Toxicological information

Information on the likely routes of exposure:

Ingestion (swallowing), skin/eye exposure and inhalation.

Acute health effects:

Ingestion may cause symptoms such as nausea, vomiting and abdominal pain.

Skin contact may cause redness and irritation.

Inhalation may be fatal and cause cough, throat irritation.

Eyes contact can cause pain and irritation.

Acute toxicity

Acute toxicity estimate

Acute Oral toxicology (LD50)- 344 mg/kg

Symptoms: **If ingested, severe burns** of the mouth and throat, as well as a **danger** of perforation of the esophagus and the stomach.

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

**Acute toxicity:**

Inhalation: No data available.

Percutaneous: No data available.

**Skin irritation or corrosion: Causes skin burns.**

**Eye irritation or corrosion: Causes serious eye damage.**

Germ cell mutation: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ system toxicity - one exposure: No data.

Specific target organ system toxicity - repeated exposure: No data available.

## **Part 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.

## **Part 13 Waste disposal**

**Waste chemicals:** Recycle whenever possible.

If it cannot be recycled, incineration is used 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.

See Section 8 for safety precautions for disposal personnel.

## **Part 14 Transport information**

**UN Number:** 1759

**UN proper shipping name:** CORROSIVE SOLID, N.O.S.

**Classification of transportation hazards:** 8

**Packaging categories:** II

Marine pollutants (yes/no) : Yes

Environmental hazards: Severe marine pollutant.

## **Part 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

## **Part 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.