



# Material Safety Data Sheet

Product name

Diallyldimethylammonium chloride solution

## 1. Identification of the substance/mixture and of the company/undertaking

- 1.1. Product name Diallyldimethylammonium chloride solution
- 1.2. CAS-No. 7398-69-8
- 1.3. Relevant identified uses of the substance or mixture and uses advised against  
Identified uses Laboratory chemicals, Synthesis of substances
- 1.4. Details of the supplier of the safety data sheet  
Company Glory Global CO.,LTD  
Address C-208, 10, Nowon-ro 15-gil, Nowon-gu, Seoul, Korea  
Emergency Phone +82 2 6223 0862

## 2. Hazards identification

- 2.1. Classification of the substance or mixture  
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Not a hazardous substance or mixture.
- 2.2. GHS Label elements, including precautionary statements Not a hazardous substance or mixture.
- 2.3. Hazards not otherwise classified (HNOC) or not covered by GHS none

## 3. Composition/information on ingredients

- 3.1. Substances  
Synonyms Dimethyldiallylammonium chloride  
Formula  $C_8H_{16}ClN$   
Molecular weight 161.67 g/mol  
No components need to be disclosed according to the applicable regulations.

## 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.  
If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
In case of skin contact Wash off with soap and plenty of water. Consult a physician.  
In case of eye contact Flush eyes with water as a precaution.  
If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- 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
- 4.3. Indication of any immediate medical attention and special treatment needed No data available

## 5. Firefighting measures

- 5.1. Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2. Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas
- 5.3. Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4. Further information No data available

## 6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 6.2. Environmental precautions Do not let product enter drains.
- 6.3. Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4. Reference to other sections For disposal see section 13.

## 7. Handling and storage

- 7.1. Precautions for safe handling For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.  
Storage class (TRGS 510): 12: Non Combustible Liquids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 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.

Personal protective equipment

a) Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

b) Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

c) Body Protection

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use  
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

d) Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

e) Control of environmental exposure

Do not let product enter drains.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance

Form: liquid

Odour

No data available

Odour Threshold

No data available

pH

No data available

Melting point/freezing point

No data available

Initial boiling point and boiling range

No data available

Flash point

No data available

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Relative density

No data available

Water solubility

No data available

Partition coefficient: n-octanol/water

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

9.2. Other safety information No data available

## 10. Stability and reactivity

10.1. Reactivity No data available  
10.2. Chemical stability Stable under recommended storage conditions.  
10.3. Possibility of hazardous reactions No data available  
10.4. Conditions to avoid No data available  
10.5. Incompatible materials Strong oxidizing agents  
10.6. Hazardous decomposition products Hazardous decomposition products formed under fire conditions. – Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas  
Other decomposition products – No data available  
In the event of fire: see section 5

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity Inhalation: No data available  
Dermal: No data available  
No data available

Skin corrosion/irritation No data available  
Serious eye damage/eye irritation No data available  
Respiratory or skin sensitisation No data available  
Germ cell mutagenicity No data available  
Carcinogenicity

a) IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
b) ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
c) NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
d) OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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  
Additional Information RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 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 PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
12.6. Other adverse effects No data available

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.  
Contaminated packaging Dispose of as unused product.

## 14. Transport information

14.1. DOT (US) Not dangerous goods  
14.2. IMDG Not dangerous goods  
14.3. IATA Not dangerous goods

## 15. Regulatory information

15.1. SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
15.2. SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  
15.3. Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.

15.4. Pennsylvania Right To Know Components

Diallyldimethylammonium chloride

CAS-No.  
7398-69-8  
7732-18-5

Revision Date

Water

15.5. New Jersey Right To Know Components

Diallyldimethylammonium chloride

CAS-No.  
7398-69-8  
7732-18-5

Revision Date

Water

15.6. California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

16.1. Further information