

# **[2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized**

Version number: GHS 1.0

Date of compilation: 2019-06-13

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

### **1.1 Product identifier**

|                                 |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Identification of the substance | <b>[2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized</b> |
| Registration number (REACH)     | this information is not available                                                                       |
| CAS number                      | 5039-78-1                                                                                               |
| Article number                  | A0219198                                                                                                |

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

|                          |             |
|--------------------------|-------------|
| Relevant identified uses | General use |
|--------------------------|-------------|

### **1.3 Details of the supplier of the safety data sheet**

Chemos GmbH & Co. KG  
Sonnenring 7  
84032 Altdorf  
Germany

Telephone: +49 871-966346-0  
Telefax: +49 871-966346-13  
e-mail: chemos@chemos.de  
Website: <http://www.chemos.de/>

|                           |                  |
|---------------------------|------------------|
| e-mail (competent person) | chemos@chemos.de |
|---------------------------|------------------|

### **1.4 Emergency telephone number**

|                               |                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Emergency information service | This number is only available during the following office hours: Mon - Thu 08:00 AM - 05:00 PM, Fri 08:00 AM - 12:00 PM |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

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

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| 3.10    | acute toxicity (oral)             | 4        | Acute Tox. 4              | H302             |
| 3.2     | skin corrosion/irritation         | 2        | Skin Irrit. 2             | H315             |
| 3.3     | serious eye damage/eye irritation | 2        | Eye Irrit. 2              | H319             |

For full text of abbreviations: see SECTION 16.

### **2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word                warning

- Pictograms

GHS07



**[2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized**

Version number: GHS 1.0

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**- Hazard statements**

|      |                                |
|------|--------------------------------|
| H302 | Harmful if swallowed.          |
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |

**- Precautionary statements**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P270           | Do not eat, drink or smoke when using this product.                                                                              |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.                                                                    |
| P302+P352      | IF ON SKIN: Wash with plenty of water.                                                                                           |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321           | Specific treatment (see on this label).                                                                                          |
| P330           | Rinse mouth.                                                                                                                     |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.                                                                         |
| P337+P313      | If eye irritation persists: Get medical advice/attention.                                                                        |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P501           | Dispose of contents/container to industrial combustion plant.                                                                    |

**2.3 Other hazards**

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

|                   |                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------|
| Name of substance | [2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H <sub>2</sub> O, stabilized |
| Identifiers       |                                                                                                    |
| CAS No            | 5039-78-1                                                                                          |
| Molecular formula | C <sub>9</sub> H <sub>18</sub> ClNO <sub>2</sub>                                                   |
| Molar mass        | 207.7 g/mol                                                                                        |

**SECTION 4: First aid measures****4.1 Description of first aid measures****General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

**[2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized**

Version number: GHS 1.0

Date of compilation: 2019-06-13

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and effects are not known to date.

**4.3 Indication of any immediate medical attention and special treatment needed**

none

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

**5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

**6.3 Methods and material for containment and cleaning up**

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**[2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized**

Version number: GHS 1.0

Date of compilation: 2019-06-13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities****7.3 Specific end use(s)**

See section 16 for a general overview.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

This information is not available.

**8.2 Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# **[2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized**

Version number: GHS 1.0

Date of compilation: 2019-06-13

## **SECTION 9: Physical and chemical properties**

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

#### **Appearance**

|                |                |
|----------------|----------------|
| Physical state | liquid         |
| Colour         | various        |
| Odour          | characteristic |

#### **Other safety parameters**

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
| pH (value)                              | not determined                    |
| Melting point/freezing point            | not determined                    |
| Initial boiling point and boiling range | not determined                    |
| Flash point                             | not determined                    |
| Evaporation rate                        | not determined                    |
| Flammability (solid, gas)               | not relevant, (fluid)             |
| Explosive limits                        | not determined                    |
| Vapour pressure                         | not determined                    |
| Density                                 | 1.105 g/cm <sup>3</sup> at 20 °C  |
| Vapour density                          | this information is not available |
| Solubility(ies)                         | not determined                    |

#### **Partition coefficient**

|                             |                                   |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature   | not determined                    |
| Viscosity                   | not determined                    |
| Explosive properties        | none                              |
| Oxidising properties        | none                              |

### **9.2 Other information**

|                 |       |
|-----------------|-------|
| Solvent content | 100 % |
|-----------------|-------|

**[2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized**

Version number: GHS 1.0

Date of compilation: 2019-06-13

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

**10.5 Incompatible materials**

Oxidisers

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Classification according to GHS (1272/2008/EC, CLP)**

Acute toxicity

Harmful if swallowed.

- Acute toxicity estimate (ATE)

Oral 500 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

**[2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized**

Version number: GHS 1.0

Date of compilation: 2019-06-13

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information****12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

Data are not available.

**12.6 Other adverse effects**

Data are not available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

- |                                                                                |                                                                       |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>14.1 UN number</b>                                                          | not subject to transport regulations                                  |
| <b>14.2 UN proper shipping name</b>                                            | not relevant                                                          |
| <b>14.3 Transport hazard class(es)</b>                                         | none                                                                  |
| <b>14.4 Packing group</b>                                                      | not assigned to a packing group                                       |
| <b>14.5 Environmental hazards</b>                                              | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                                       |                                                                       |
| There is no additional information.                                            |                                                                       |
| <b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b> |                                                                       |
| The cargo is not intended to be carried in bulk.                               |                                                                       |

# [2-(Methacryloyloxy)ethyl]trimethylammonium chloride, 72% solution in H<sub>2</sub>O, stabilized

Version number: GHS 1.0

Date of compilation: 2019-06-13

## Information for each of the UN Model Regulations

### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

### International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

##### Deco-Paint Directive (2004/42/EC)

|             |       |
|-------------|-------|
| VOC content | 100 % |
|-------------|-------|

##### Directive on industrial emissions (VOCs, 2010/75/EU)

|             |       |
|-------------|-------|
| VOC content | 100 % |
|-------------|-------|

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Abbreviations and acronyms

| Abbr.    | Descriptions of used abbreviations                                                                                                                                                                                    |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADN      | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR      | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| CAS      | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                                                                |
| CLP      | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                                                    |
| DGR      | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                                                            |
| GHS      | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                                                             |
| IATA     | International Air Transport Association                                                                                                                                                                               |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                                                        |
| ICAO     | International Civil Aviation Organization                                                                                                                                                                             |
| IMDG     | International Maritime Dangerous Goods Code                                                                                                                                                                           |
| MARPOL   | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")                                                                                                                     |
| PBT      | Persistent, Bioaccumulative and Toxic                                                                                                                                                                                 |
| REACH    | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                                                                  |

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Version number: GHS 1.0

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| Abbr. | Descriptions of used abbreviations                                                                                                                                      |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RID   | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| VOC   | Volatile Organic Compounds                                                                                                                                              |
| vPvB  | Very Persistent and very Bioaccumulative                                                                                                                                |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text                           |
|------|--------------------------------|
| H302 | Harmful if swallowed.          |
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.