# Safety Data Sheet

| | |
|---|---|
| *Release* | 1.0 |
| *Revision* | 01/22/2021 |
| *Date of issue* | 05/05/2022 |



## 1 Identification of the substance

### 1.1 Product identifier

| | |
|---|---|
| *Identification of the substance* | [2-(Acryloyloxy)ethyl]trimethylammonium chloride solution - 80 wt. % in H2O, contains 600 ppm MEHQ as inhibitor |
| *Additional identification* | |
| *Cataloge Number* | FA174868 |
| REACH No. | A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration. |

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

| | |
|---|---|
| *Identified uses* | other biochemicals |
| *Restriction on use* | not for food or drug use, for laboratory use only |

### 1.3 Details of the suppller of the safty data sheet

| | |
|---|---|
| *Company* | Carbosynth Ltd<br>8&9 Old Station Business Park<br>COMPTON RG20 6NE |
| *Phone* | +44 1635 578444 |
| *Mail* | customerservice@biosynth-carbosynth.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| *Phone* | 24hr/7days: +44 118 338 8269 |

## 2 Hazards identification

### 2.1 Classification of the substance or mixturet

***Physical Hazards***

not classified

***Health Hazards***

sensitisation (Category 1B)

Eye irritation (Category 2), H319

acute toxicity (Category 4)

***Enviromental Hazards***

not classified

### 2.2 Label elements

**Regulatory List**

| | |
|---|---|
| EC1272/08 | Regulation (EC) 1272/2008 (GHS/CLP) |

**Symbol**

| | |
|---|---|
| GHS07 | exclamation mark |

**Pictogram**

**Signal Word**

| | |
|---|---|
| Warning | Warning |

**Hazard Statement**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |

**Precautionary Statement**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

| | |
|---|---|
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Remove contact lenses, if possible. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P501 | Dispose of contents / container in accordance with local / regional / national / international regulations. |

**2.3 Other hazards**

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

## 3 Composition/information on ingredients

**Substance related information**

| | |
|---|---|
| *Substance name* | [2-(Acryloyloxy)ethyl]trimethylammonium chloride solution - 80 wt. % in H2O, contains 600 ppm MEHQ as inhibitor |
| *Synonyms* | |
| *Cas No.* | [44992-01-0] |
| *Formula* | $C_8H_{16}ClNO_2$ |

## 4 First aid measures

**4.1 Description of first aid measures**

**First Aid: Eye**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

**First Aid: Skin**

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

**First Aid: Ingestion**

Wash out mouth with water provided person is conscious. Call a physician.

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

**Hints for Physician: Symptoms**

See Section 11 for additonal information on health hazards

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

**First Aid: Inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Hints for Physician: Treatment**

Treat symptomatically.

## 5 Firefighting measures

**5.1 Extinguishing Media**

**Suitable**

foam, dry extinguishing powder, carbon dioxide (CO2), water spray jet

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

Wear a self-contained breathing apparatus and chemical protective clothing.

**Hazards During Fire-Fighting**

toxic fumes

**5.3 Fire-Fighting/Further Advice**

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

## 6 Accidental release measures

**6.1 Personal Precautions, potective equipment and emergency procedures**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

**6.2 Environmental Precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

### 6.3 Methods and material for containment and cleaning up
not available

### 6.4 Further Accidental Release Measures
Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

## 7 Handling and storage

### 7.1 Precautions for safe handling
**Handling advice**
Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities
**Storage temperature**
store at 2°C - 8°C

**Storage condition**
close container well

**Storage Requirements**
Keep container tightly closed in an upright position to prevent leakage. Keep away from incompatible substances. Keep container tightly closed when not in use.

### 7.3 Specific end use(s)

## 8 Exposure controles/personal protection

### 8.1 Exposure limit values
Does not contain any substances with occupational exposure limits.

### 8.2 Exposure controles
**Industrial Hygiene**
Mechanical exhaust required. Safety shower and eye shower.

### 8.3 Personal Protective Equipment
**Respiratory Protection**
Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

**Hand Protection**
Wear compatible chemical-resistant gloves to prevent skin exposure.

**Eye Protection**
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

**Body Protection**
Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

**Advice on Safe Handling**
Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

## 9 Physical and chemical properties

### 9.1 Information on basic Physical and chemical color properties
*Form*
clear liquid

*Density*
1.132 g/cm3

### 9.2 Other information
*Molar Mass*
193.67 g/mol

## 10 Stability and reactivity

### 10.1 Reactivity
No Data Available

### 10.2 Chemical stability
No Data Available

### 10.3 Possibility of hazardous reaction
No Data Available

### 10.4 Conditions to Avoid (SDS)
incompatible materials, heat

**10.5 Incompatible materials**
strong oxidizers

**10.6 Hazardous decomposition products**
nitrogen oxides (NOx), carbon dioxide (CO2), hydrogen chloride (HCl), carbon monoxide

## 11 Toxicological information

**11.1 Information on toxicological effects**

**Other Relevant Toxicity Information**
We are not aware of any toxicology data.

## 12 Ecological Information

**12.1 Toxicity**

| | | | | | |
|---|---|---|---|---|---|
| **Acute toxicity versus Fishing** | Test Type | Species | Method | Exposure Time | Value in standard unit mg/l |
| | No data available | No data available | No data available | No data available | No data available |
| **Acute toxicity in aquatic plants** | Test Type | Species | Method | Exposure Time | Value in standard unit mg/l |
| | No data available | No data available | No data available | No data available | No data available |
| **Acute toxicity versus Daphnia and others aquatic invertebrates** | Test Type | Species | Method | Exposure Time | Value in standard unit mg/l |
| | No data available | No data available | No data available | No data available | No data available |

**12.2 Persistence and degradablity**
Remarks : no data available
**12.3 Bioaccumulative potential**
Remarks : no data available
**12.4 Mobility in soil**
no data available
**12.5 Results of PBT and vPvB assessment**
no data available
**12.6 Other adverse effects**
no data available

## 13 Disposal considerations

**Advice on Disposal and Packaging**

*Advice on Disposal*
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

*Advice on Packaging*
not available

## 14 Transport information

| | Road Transport(ADR/GGVS) | Air Transport(IATA) |
|---|---|---|
| **14.1 UN number** | Not Dangerous Goods | Not Dangerous Goods |
| **14.2 UN proper shipping name** | Not Dangerous Goods | Not Dangerous Goods |
| **14.3 Transport hazard class(es)** | Not Dangerous Goods | Not Dangerous Goods |
| **14.4 Packing group** | Not Dangerous Goods | Not Dangerous Goods |
| **14.5 Enviromental hazard class (es)** | Not Dangerous Goods | Not Dangerous Goods |
| **14.6 Special precautions for user** | Not applicable | Not applicable |
| **14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code** | Not applicable | Not applicable |

## 15 Other regulations

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixturet**

| Component | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---|---|---|---|
| [2-(Acryloyloxy)ethyl] trimethylammonium chloride solution - 80 wt. % in H2O, contains 600 ppm MEHQ as inhibitor | ----- | ----- | ----- |

*Regulatory List*
EINECS, IECSC, TCSI, TSCA, NZIOC, PICCS, AICS, DSL

**15.2 Chemical safty assessment**

No chemical safety assessment has been carried out.

## 16 Additional information

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