

# 2-(Dimethylamino)ethyl methacrylate (stabilized)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 03/04/2023 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : 2-(Dimethylamino)ethyl methacrylate (stabilized)  
Product code : 202100013

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

##### 1.2.1. Relevant identified uses

Main use category : The product is intended for research, analysis and scientific education.  
Use of the substance/mixture : For professional use only  
Function or use category : Laboratory chemicals

##### 1.2.2. Uses advised against

Restrictions on use : Do not use : Ingestion, Inhalation, Dermal

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

European Directorate for the Quality of Medicines & Healthcare  
EDQM, Council of Europe 7, Allée Kastner, CS30026  
F- 67081 Strasbourg  
France  
T +33(0)388412035 - F +33(0)388412771  
[sds@edqm.eu](mailto:sds@edqm.eu) - [www.edqm.eu](http://www.edqm.eu)

#### 1.4. Emergency telephone number

Emergency number : +33(0)390215608

### SECTION 2: Hazards identification

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

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

|   |      |
|---|------|
| Acute toxicity (oral), Category 4             | H302 |
| Acute toxicity (dermal), Category 4           | H312 |
| Skin corrosion/irritation, Category 2         | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Skin sensitisation, Category 1                | H317 |

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Expert judgement and weight of evidence determination.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains

: mequinol; 4-methoxyphenol; hydroquinone monomethyl ether; 2-(Dimethylamino)ethyl methacrylate

Hazard statements (CLP)

: H302+H312 - Harmful if swallowed or in contact with skin.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.

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|   |   |
|---|---|
| Precautionary statements (CLP)  | : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br>P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P312 - Call a POISON CENTRE or doctor if you feel unwell.<br>P321 - Specific treatment (see supplemental first aid instruction on this label).<br>P330 - Rinse mouth.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Labelling according to: exemption for inner packaging where the contents do not exceed 10ml |   |
| Hazardous ingredients   | : mequinol; 4-methoxyphenol; hydroquinone monomethyl ether; 2-(Dimethylamino)ethyl methacrylate   |

### 2.3. Other hazards

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

The mixture does not contain substance(s) 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 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier  | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|---|------------|---|
| 2-(Dimethylamino)ethyl methacrylate                      | CAS-No.: 2867-47-2<br>EC-No.: 220-688-8<br>EC Index-No.: 607-132-00-3 | $\leq 100$ | Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight)<br>Acute Tox. 4 (Oral), H302 (ATE=1751 mg/kg bodyweight)<br>Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317 |
| mequinol; 4-methoxyphenol; hydroquinone monomethyl ether | CAS-No.: 150-76-5<br>EC-No.: 205-769-8<br>EC Index-No.: 604-044-00-7  | 0,1 – 0,25 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317  |

Full text of H- and EUH-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after skin contact : Wipe off as much as possible (using a clean, soft, absorbent material).  
First-aid measures after eye contact : Rinse eyes with water as a precaution.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Extinguishing blanket.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : See Heading 2.2.

#### 5.3. Advice for firefighters

Firefighting instructions : Use extinguishing media appropriate for surrounding fire.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid all unnecessary exposure.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

No additional information available

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

No additional information available

#### 7.2. Conditions for safe storage, including any incompatibilities

No additional information available

#### 7.3. Specific end use(s)

See Heading 1.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Keep in a well-ventilated room. Both local exhaust and general room ventilation are usually required.

##### 8.2.2. Personal protection equipment

###### 8.2.2.1. Eye and face protection

No additional information available

###### 8.2.2.2. Skin protection

###### Skin and body protection:

Lab coat

###### Hand protection:

Protective gloves

###### 8.2.2.3. Respiratory protection

No additional information available

###### 8.2.2.4. Thermal hazards

No additional information available

##### 8.2.3. Environmental exposure controls

No additional information available

### SECTION 9: Physical and chemical properties

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

|                           |                 |
|---------------------------|-----------------|
| Physical state            | : Liquid        |
| Colour                    | : Not available |
| Odour                     | : Not available |
| Odour threshold           | : Not available |
| Melting point             | : Not available |
| Freezing point            | : Not available |
| Boiling point             | : Not available |
| Flammability              | : Not available |
| Explosive limits          | : Not available |
| Lower explosion limit     | : Not available |
| Upper explosion limit     | : Not available |
| Flash point               | : Not available |
| Auto-ignition temperature | : Not available |

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|   |                  |
|---|------------------|
| Decomposition temperature                       | : Not available  |
| pH  | : Not available  |
| Viscosity, kinematic                            | : Not available  |
| Solubility                                      | : Not available  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50°C                         | : Not available  |
| Density   | : Not available  |
| Relative density                                | : Not available  |
| Relative vapour density at 20°C                 | : Not available  |
| Particle characteristics                        | : Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

None under normal use. See Section 7.

### 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |  |
|-----------------------------------|--|
| Acute toxicity (oral)             | : Harmful if swallowed.                |
| Acute toxicity (dermal)           | : Harmful in contact with skin.        |
| Acute toxicity (inhalation)       | : Not classified                       |
| Skin corrosion/irritation         | : Causes skin irritation.              |
| Serious eye damage/irritation     | : Causes serious eye irritation.       |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : Not classified                       |
| Reproductive toxicity             | : Not classified                       |
| STOT-single exposure              | : Not classified                       |
| STOT-repeated exposure            | : Not classified                       |
| Aspiration hazard                 | : Not classified                       |

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### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Presents no specific risk for the environment.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified  
Not rapidly degradable

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|                      |            |
|----------------------|------------|
| LC50 - Fish [1]      | 139,5 mg/l |
| EC50 - Crustacea [1] | 53 mg/l    |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

No additional information available

## SECTION 14: Transport information




In accordance with ADR / IMDG / IATA

| ADR   | IMDG  | IATA  |
|---|---|---|
| <b>14.1. UN number or ID number</b>           |   |   |
| UN 2522                                       | UN 2522                                       | UN 2522                                       |
| <b>14.2. UN proper shipping name</b>          |   |   |
| 2-DIMETHYLAMINOETHYL METHACRYLATE, STABILIZED | 2-DIMETHYLAMINOETHYL METHACRYLATE, STABILIZED | 2-Dimethylaminoethyl methacrylate, stabilized |

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| ADR   | IMDG  | IATA  |
|---|---|---|
| <b>Transport document description</b>   |   |   |
| UN 2522 2-DIMETHYLAMINOETHYL METHACRYLATE, STABILIZED, 6.1, II, (D/E)             | UN 2522 2-DIMETHYLAMINOETHYL METHACRYLATE, STABILIZED, 6.1, II                    | UN 2522 2-Dimethylaminoethyl methacrylate, stabilized, 6.1, II                      |
| <b>14.3. Transport hazard class(es)</b>   |   |   |
| 6.1   | 6.1   | 6.1   |
|  |  |  |
| <b>14.4. Packing group</b>  |   |   |
| II  | II  | II  |
| <b>14.5. Environmental hazards</b>  |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No                         | Dangerous for the environment: No   |
| No supplementary information available  |   |   |

### 14.6. Special precautions for user

#### Overland transport

|   |               |
|---|---------------|
| Classification code (ADR)   | : T1          |
| Limited quantities (ADR)  | : 100ml       |
| Excepted quantities (ADR)   | : E4          |
| Packing instructions (ADR)  | : P001, IBC02 |
| Mixed packing provisions (ADR)  | : MP15        |
| Portable tank and bulk container instructions (ADR)                     | : T7          |
| Portable tank and bulk container special provisions (ADR)               | : TP2         |
| Tank code (ADR)   | : L4BH        |
| Tank special provisions (ADR)   | : TU15, TE19  |
| Vehicle for tank carriage   | : AT          |
| Transport category (ADR)  | : 2           |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13, CV28  |
| Special provisions for carriage - Operation (ADR)                       | : S9, S19     |
| Hazard identification number (Kemler No.)                               | : 69          |
| Orange plates   | :             |



|                               |       |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : D/E |
|-------------------------------|-------|

#### Transport by sea

|                                    |   |
|------------------------------------|---|
| Limited quantities (IMDG)          | : 100 ml  |
| Excepted quantities (IMDG)         | : E4  |
| Packing instructions (IMDG)        | : P001  |
| IBC packing instructions (IMDG)    | : IBC02   |
| Tank instructions (IMDG)           | : T7  |
| Tank special provisions (IMDG)     | : TP2   |
| EmS-No. (Fire)                     | : F-A   |
| EmS-No. (Spillage)                 | : S-A   |
| Stowage category (IMDG)            | : D   |
| Stowage and handling (IMDG)        | : SW2   |
| Properties and observations (IMDG) | : Combustible liquid. Causes tears. Toxic if swallowed, by skin contact or by inhalation. |

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### Air transport

|  |        |
|--|--------|
| PCA Excepted quantities (IATA)               | : E4   |
| PCA Limited quantities (IATA)                | : Y641 |
| PCA limited quantity max net quantity (IATA) | : 1L   |
| PCA packing instructions (IATA)              | : 654  |
| PCA max net quantity (IATA)                  | : 5L   |
| CAO packing instructions (IATA)              | : 662  |
| CAO max net quantity (IATA)                  | : 60L  |
| ERG code (IATA)                              | : 6L   |

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not applicable.

##### POP Regulation (Persistent Organic Pollutants)

Not applicable.

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Full text of H- and EUH-statements:

|                       |   |
|-----------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4           |
| Acute Tox. 4 (Oral)   | Acute toxicity (oral), Category 4             |
| Eye Irrit. 2          | Serious eye damage/eye irritation, Category 2 |
| H302                  | Harmful if swallowed.                         |
| H312                  | Harmful in contact with skin.                 |



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### Full text of H- and EUH-statements:

|               |                                       |
|---------------|---------------------------------------|
| H315          | Causes skin irritation.               |
| H317          | May cause an allergic skin reaction.  |
| H319          | Causes serious eye irritation.        |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1  | Skin sensitisation, Category 1        |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                       |      |                    |
|-----------------------|------|--------------------|
| Acute Tox. 4 (Oral)   | H302 | Calculation method |
| Acute Tox. 4 (Dermal) | H312 | Calculation method |
| Skin Irrit. 2         | H315 | Calculation method |
| Eye Irrit. 2          | H319 | Calculation method |
| Skin Sens. 1          | H317 | Calculation method |

Safety Data Sheet (SDS), EU

**DISCLAIMER OF LIABILITY** The EDQM has created this SDS as a downstream user for regulatory compliance to rules applicable to chemicals only. This article is intended only for small-volume laboratory analysis and other routine testing prescribed in the pharmacopoeia or EDQM study protocol, under controlled conditions and by professionals only. Any other use of this article or the SDS information is the sole responsibility of the user. This substance is present in articles in quantities totalling under 10 kg per year. There is no human or environmental exposure under intended and foreseeable conditions of use. The user has the responsibility for handling, storage, use conditions and disposal of this article and for any use of the information in this SDS. The information has been obtained from suppliers and is without any warranty, express or implied, regarding its correctness. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the article.