

## SAFETY DATA SHEET

Version 6.3  
Revision Date 12/16/2020  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name : 2-(Dimethylamino)ethyl acrylate

Product Number : 330957  
Brand : Aldrich  
CAS-No. : 2439-35-2

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

Identified uses : Laboratory chemicals, Synthesis of substances

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

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

**1.4 Emergency telephone**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 3), H226  
Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 1), H330  
Acute toxicity, Dermal (Category 3), H311  
Skin corrosion (Category 1B), H314  
Serious eye damage (Category 1), H318  
Skin sensitization (Category 1), H317  
Reproductive toxicity (Category 2), H361  
Short-term (acute) aquatic hazard (Category 1), H400

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

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

|      |  |
|------|--|
| H226 | Flammable liquid and vapor.                          |
| H302 | Harmful if swallowed.                                |
| H311 | Toxic in contact with skin.                          |
| H314 | Causes severe skin burns and eye damage.             |
| H317 | May cause an allergic skin reaction.                 |
| H330 | Fatal if inhaled.                                    |
| H361 | Suspected of damaging fertility or the unborn child. |
| H400 | Very toxic to aquatic life.                          |

Precautionary statement(s)

|                           |  |
|---------------------------|--|
| P201                      | Obtain special instructions before use.  |
| P202                      | Do not handle until all safety precautions have been read and understood.  |
| P210                      | Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  |
| P233                      | Keep container tightly closed.   |
| P240                      | Ground/bond container and receiving equipment.   |
| P241                      | Use explosion-proof electrical/ ventilating/ lighting/ equipment.  |
| P242                      | Use only non-sparking tools.   |
| P243                      | Take precautionary measures against static discharge.  |
| P260                      | Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.   |
| P264                      | Wash skin thoroughly after handling.   |
| P270                      | Do not eat, drink or smoke when using this product.  |
| P271                      | Use only outdoors or in a well-ventilated area.  |
| P272                      | Contaminated work clothing must not be allowed out of the workplace.   |
| P273                      | Avoid release to the environment.  |
| P280                      | Wear protective gloves/ protective clothing/ eye protection/ face protection.  |
| P284                      | Wear respiratory protection.   |
| P301 + P312 + P330        | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  |
| P301 + P330 + P331        | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303 + P361 + P353        | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.   |
| 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. |
| P308 + P313               | IF exposed or concerned: Get medical advice/ attention.  |
| P333 + P313               | If skin irritation or rash occurs: Get medical advice/ attention.  |
| P362                      | Take off contaminated clothing and wash before reuse.  |
| P370 + P378               | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.   |
| P391                      | Collect spillage.  |
| P403 + P233               | Store in a well-ventilated place. Keep container tightly closed.   |
| P403 + P235               | Store in a well-ventilated place. Keep cool.   |
| P405                      | Store locked up.   |
| P501                      | Dispose of contents/ container to an approved waste disposal   |

plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Lachrymator., Rapidly absorbed through skin.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Molecular weight : 143.18 g/mol  
CAS-No. : 2439-35-2

| Component                              | Classification   | Concentration     |
|--|--|-------------------|
| <b>2-(dimethylamino)ethyl acrylate</b> |  |                   |
|  | Flam. Liq. 3; Acute Tox. 4;<br>Acute Tox. 1; Acute Tox.<br>3; Skin Corr. 1B; Eye<br>Dam. 1; Skin Sens. 1;<br>Aquatic Acute 1; H226,<br>H302, H330, H311, H314,<br>H318, H317, H400<br>M-Factor - Aquatic Acute:<br>1 | <= 100 %          |
| <b>hydroquinone monomethyl ether</b>   |  |                   |
|  | Acute Tox. 4; Eye Irrit.<br>2A; Skin Sens. 1; Aquatic<br>Acute 2; Aquatic Chronic<br>3; H302, H319, H317,<br>H401, H412  | >= 0.1 - < 1<br>% |

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

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

First aider needs to protect himself. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

**If swallowed**

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

**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 2.2) and/or in section 11

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

No data available

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

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

**5.3 Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**5.4 Further information**

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains. Risk of explosion.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

**6.4 Reference to other sections**

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

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

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

#### Storage stability

Recommended storage temperature

2 - 8 °C

Heat-, light-, and moisture-sensitive.

Storage class (TRGS 510): 3: Flammable liquids

### 7.3 Specific end use(s)

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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

| Component                     | CAS-No.  | Value | Control parameters  | Basis   |
|-------------------------------|----------|-------|---------------------|---|
| hydroquinone monomethyl ether | 150-76-5 | TWA   | 5 mg/m <sup>3</sup> | USA. ACGIH Threshold Limit Values (TLV)   |
|                               |          | TWA   | 5 mg/m <sup>3</sup> | USA. NIOSH Recommended Exposure Limits  |
|                               |          | PEL   | 5 mg/m <sup>3</sup> | California permissible exposure limits for chemical contaminants (Title 8, Article 107) |

### 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

## Personal protective equipment

### Eye/face protection

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

### Body Protection

Flame retardant antistatic protective clothing.

### Respiratory protection

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### Control of environmental exposure

Do not let product enter drains. Risk of explosion.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| a) Appearance                                   | Form: liquid<br>Color: yellow                     |
| b) Odor   | No data available                                 |
| c) Odor Threshold                               | No data available                                 |
| d) pH   | No data available                                 |
| e) Melting point/freezing point                 | Melting point/freezing point: < -61 °C (< -78 °F) |
| f) Initial boiling point and boiling range      | 64 °C 147 °F at 16 hPa - lit.                     |
| g) Flash point                                  | 59 °C (138 °F) - closed cup                       |
| h) Evaporation rate                             | No data available                                 |
| i) Flammability (solid, gas)                    | No data available                                 |
| j) Upper/lower flammability or explosive limits | No data available                                 |
| k) Vapor pressure                               | 1 hPa at 20 °C (68 °F)                            |
| l) Vapor density                                | No data available                                 |
| m) Relative density                             | 0.943 g/cm <sup>3</sup> at 25 °C (77 °F)          |
| n) Water solubility                             | 1,000 g/l at 20 °C (68 °F) - soluble              |
| o) Partition coefficient: n-octanol/water       | log Pow: 0.68 at 25 °C (77 °F)                    |
| p) Autoignition temperature                     | 195 °C (383 °F) at 1,013.25 hPa                   |
| q) Decomposition temperature                    | No data available                                 |

- r) Viscosity 1.43 mm<sup>2</sup>/s at 20 °C (68 °F) -  
s) Explosive properties No data available  
t) Oxidizing properties No data available

## **9.2 Other safety information**

No data available

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## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Vapor/air-mixtures are explosive at intense warming.

### **10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

Heating.

### **10.5 Incompatible materials**

Strong oxidizing agents Strong bases, Strong oxidizing agents, Strong reducing agents

### **10.6 Hazardous decomposition products**

In the event of fire: see section 5

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - Rat - male and female - 1,210 - 1,500 mg/kg

LC50 Inhalation - Rat - male and female - 4 h - 0.22 mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - 419 mg/kg

(OECD Test Guideline 402)

No data available

#### **Skin corrosion/irritation**

Skin - Rabbit

Result: Causes burns.

(OECD Test Guideline 404)

#### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Severe eye irritation

#### **Respiratory or skin sensitization**

Maximization Test - Guinea pig

Result: May cause sensitization by skin contact.

(OECD Test Guideline 406)

#### **Germ cell mutagenicity**

Hamster

ovary  
Result: negative  
OECD Test Guideline 474  
Mouse - male and female  
Result: negative

### **Carcinogenicity**

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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  
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

## **11.2 Additional Information**

Repeated dose toxicity - Rat - male and female - NOAEL (No observed adverse effect level)  
- 10 mg/kg  
RTECS: AS8578000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Dizziness, Drowsiness, Confusion., Weakness, muscle cramps, Change in pupil size., Fever, Seizures., Incoordination., Convulsions, Coma, Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate, and/or a fall in blood pressure as a result of their action at cholinergic nerve sites.

Stomach - Irregularities - Based on Human Evidence  
Stomach - Irregularities - Based on Human Evidence

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

|   |   |
|---|---|
| Toxicity to fish                                    | semi-static test LC50 - <i>Oryzias latipes</i> - 8.49 mg/l - 96 h<br>(OECD Test Guideline 203)          |
| Toxicity to daphnia and other aquatic invertebrates | Immobilization EC50 - <i>Daphnia magna</i> (Water flea) - 9.92 mg/l - 48 h<br>(OECD Test Guideline 202) |



Toxicity to algae                      static test EC50 - Desmodesmus subspicatus (green algae) - 0.88 mg/l - 72 h

## **12.2 Persistence and degradability**

Biodegradability                      aerobic - Exposure time 28 d  
Result: 96 % - Readily biodegradable.

## **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**

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# **SECTION 13: Disposal considerations**

## **13.1 Waste treatment methods**

### **Product**

Waste material must be disposed of in accordance with the national and local No mixing with other waste. Handle uncleaned containers like the product See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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# **SECTION 14: Transport information**

## **DOT (US)**

UN number: 3302    Class: 6.1                      Packing group: II  
Proper shipping name: 2-Dimethylaminoethyl acrylate, stabilized  
Reportable Quantity (RQ):  
Poison Inhalation Hazard: No

## **IMDG**

UN number: 3302    Class: 6.1                      Packing group: II                      EMS-No: F-A, S-A  
Proper shipping name: 2-DIMETHYLAMINOETHYL ACRYLATE

## **IATA**

UN number: 3302    Class: 6.1                      Packing group: II  
Proper shipping name: 2-Dimethylaminoethyl acrylate, stabilized

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# **SECTION 15: Regulatory information**

## **SARA 302 Components**

This material does not contain any components with a section 302 EHS TPQ.

## **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.

Aldrich - 330957

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**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

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**SECTION 16: Other information****Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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