

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-16

Print Date: 2025-09-22

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

### 1.1 Product identifiers

Product name : Ethyl methacrylate(EMA)  
Product Number : E492609  
Brand : aladdin  
CAS-No. : 97-63-2

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (Class 2), H225

Acute toxicity, inhalation (Class 5), H333

Skin corrosion/irritation (Category 2), H315

Severe eye injury/eye irritation (Category 2A), H319

Skin allergy (Category 1), H317

Specific target organ systemic toxicity (single exposure) (Category 3), respiratory irritation, H335

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

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H225	Highly Flammable liquid and vapor
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
<b>Precautionary statement(s)</b>	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - 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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P321	Specific treatment (see ... on this label).
P302+P352	IF ON SKIN: wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use ... to extinguish.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.
P264+P265	Wash hands [and ...] thoroughly after handling. Do not touch eyes.
P337+P317	If eye irritation persists: Get medical help.
P332+P317	If skin irritation occurs: Get medical help.
P319	Get medical help if you feel unwell.

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

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Synonyms	: Methacrylic Acid Ethyl Ester
Formula	: C <sub>6</sub> H <sub>10</sub> O <sub>2</sub>
Molecular weight	: 114.14
CAS No.	: 97-63-2
EC-NO.	: no data available

Component	Classification	Concentration
<b>Ethyl methacrylate(EMA)</b>		
	Flammable liquid category 2; Acute toxicity class Don't 5; Skin corrosion/irritation category 2; Severe eye injury/eye irritation category 2A; Skin allergy category 1; Specificity Target organ systemic toxicity (single exposure) category 3; H225, H333, H315, H319, H317, H335	≥98%, contains 10-20 ppm MEHQ as stabilizer

**SECTION 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. Move out of dangerous area.

**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**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

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

no data available

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

no data available

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

no data available

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

Hazardous decomposition products formed under fire conditions.- Carbon oxides

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all  
<br/>sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive  
<br/>concentrations. Vapours can a

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in  
<br/>container for disposal according to local regulations (see section 13).<br/>

### 6.4 Reference to other sections

no data available

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br/>Use explosion-proof equipment. Keep away  
from sources of ignition - No smoking. Take measures to prevent the build <br/>up of electrostatic charge.<br/>

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

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. Opened containers must  
be carefully resealed and held upright to prevent leakage. Sensitive to light and heat. 2-8 ° C, filled with argon, stored in  
a dark place.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

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**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice.Wash hands before breaks and at the end of  
 <br/><br/>Aldrich - 234893 Page 4 of 7 <br/>workday.<br/>

**Personal protective equipment**

**Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate  
 <br/>government standards such as NIOSH (US) or EN 166(EU).<br/>

**Skin protection**

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching  
 <br/>glove's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in  
 <br/>accordance with applicable laws and good laboratory practices.Wash and dry hands.<br/>Splash  
 protection <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.4 mm <br/>Break through time: 30  
 min <br/>Material tested:Camatril? (KCL 730 / Aldrich Z677442, Size M) <br/>data source: KCL GmbH, D-  
 36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 <br/>If used in solution,  
 or mixed with other substances, and under conditions which differ from EN 374, contact the <br/>supplier of the  
 CE approved gloves.This recommendation is advisory only and must be evaluated by an Industrial  
 <br/>Hygienist familiar with the specific situation of anticipated use by our customers.It should not be construed  
 as <br/>offering an approval for any specific use scenario.<br/>

**Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of  
 protective <br/>equipment must be selected according to the concentration and amount of the dangerous  
 substance at the specific <br/>workplace.<br/>

**Respiratory protection**

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

**Control of environmental exposure**

no data available

**SECTION 9: Physical and chemical properties**

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

a) Appearance	form: liquid color: colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	-75°C
f) Initial boiling point and boiling range	119°C
g) Flash point	19°C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available

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j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	0.91
n) Water solubility	Insoluble in water; Soluble in ether and alcohol
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

## 9.2 Other safety information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Possible violent reaction with it: Initiating agent for polymerization reaction ammonia alkali Strong oxidizing agent amine halogen acid

### 10.2 Chemical stability

This product has stable chemical properties under standard environmental conditions (room temperature).

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heating. Glow. Heat up

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 oral rat -13424 mg/kg

Acute toxicity estimate inhalation -4 hours -38.75 mg/l

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(Calculation method)

LC50 inhalation - rats -4 hours -8300 ppm

Note: Sensory organs and special sensations (nose, eyes, ears, and taste): Smell: Other changes.

Sensory organs and special sensations (nose, eyes, ears, and taste): eyes: other.

Lung, chest, or respiratory system: difficulty breathing

Transcutaneous: 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**

Test type: Hamster Testing system: Fibroblasts Metabolic activation: with or without metabolic activation effect

Result: Negative Test type: In vivo micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test)

Result: Negative

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

Repetitive toxicity - rats - females - forced feeding method - levels of no harmful effects observed -300 mg/kg

Repetitive toxicity - rats - males - forced feeding method - levels of no harmful effects observed -30 mg/kg

Repeated toxicity - rats - males and females - inhalation - levels of no harmful effects observed -310 mg/kg

Toxicity registration of chemical substances: OZ4550000

Cough, shortness of breath, headache, nausea, vomiting

To our knowledge, this chemical, physical, and toxic property has not been fully studied.

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

Toxicity to fish

Flow test

LC50- Salmo gairdneri -100 mg/l -96 h

(OECD Testing Guidelines 203)

Toxicity to Daphnia and other aquatic invertebrates

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Flow test

EC50- Daphnia (Daphnia) ->66 mg/l -48 hours

Toxicity to algae

EC50- Pseudokirchneriella subcapitata (green algae) ->110 mg/l -72 hours  
(OECD Testing Guidelines 201)

## 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

no data available

## 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Discard as unused product.

## SECTION 14: Transport information

### DOT (US)

UN number: 2277

Packing group: II

Class: 3

Proper shipping name: ETHYL

Reportable Quantity(RQ): no data  
available

Poison Inhalation Hazard: no data  
available

METHACRYLATE STABILIZED

Environmental Hazards: NO

### IMDG

UN number: 2277

Packing group: II

EMS-No: no data available

Proper shipping name: ETHYL METHACRYLATE STABILIZED

### IATA

UN number: 2277

Packing group: II

Class: 3



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Proper shipping name: ETHYL METHACRYLATE STABILIZED

### SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 16: Other information

Prepared By	Regulatory Affairs ALADDIN SCIENTIFIC CORPORATION Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a>
Creation Date	07-Dec-2023
Revision Date	16-Sep-2025
Print Date	22-Sep-2025
Revision Summary	SDS sections updated v1

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