

SAFETY DATA SHEET

Version: v1

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

1.1 Product identifiers

Product name : Ethyl methacrylate(EMA)
Product Number : E103002
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
Precautionary statement(s)	
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 ₆ H ₁₀ O ₂
Molecular weight	: 114.14
CAS No.	: 97-63-2
EC-NO.	: no data available

Component	Classification	Concentration
Ethyl methacrylate(EMA)	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	Standard for GC, ≥99.5%(GC)

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

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5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

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

sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive

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

container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

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.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of
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workday.

Personal protective equipment

Eye/face protection

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

Skin protection

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

Body Protection

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

Respiratory protection

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

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.

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: QualityAssurance@aladdinsci.com
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