ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

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	: Methacrylic acid
Product Number	: M434201
Brand	: aladdin
CAS-No.	: 79-41-4

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)

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 3), H311

Skin corrosion (Sub-category 1A), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

2.2 GHS Label elements, including precautionary statements

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Pictogram	
Signal word	Danger
Hazard statement(s)	
H227	Combustible liquid
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H402	Harmful to aquatic life
H302+H332	Harmful if swallowed or if inhaled
Precautionary statement(s)	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.
P301+P317	IF SWALLOWED: Get medical help.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P317	Get emergency medical help.
P302+P361+P354	IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.
P316	Get emergency medical help immediately.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Methacrylic acid, 2-Methylpropenoic acid
Formula	: C4H6O2
Molecular weight	: 86.09
CAS No.	: 79-41-4
EC-NO.	: 201-204-4

Component	Classification	Concentration
Methacrylic acid		
	Acute Tox. 4; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; STOT SE 3; H302, H332, H311, H314, H318, H335 Concentration limits: >= 1 %: STOT SE 3, H335	for synthesis, stabilized with hydroquinone monomethyl ether

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

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

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

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

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.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Room temperature storage.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component	CAS No	value	Control parameter	foundation

methacrylic acid	79-41-4	PC-TWA	70 mg/m3	Occupational exposure limits for occupational hazards in the workplace-chemical hazards

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 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 EN166(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. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

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 fullface particle respirator type N100 (US) or type P3 (EN 143) 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

If it is safe, prevent further leakage or spillage and do not allow the product to enter the sewer system.

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	16°C
f) Initial boiling point and boiling range	163°C
g) Flash point	76°C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
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	1.015
n) Water solubility	no data available
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

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Risk of explosion with: furfuryl alcohol hydrochloric acid Violent reactions possible with: Amines azides Aldehydes Acid anhydrides Acid chlorides alkaline earth hydroxides alkali hydroxides bases Ether Heavy metal salts Heavy metals Ketones metallic hydroxides mineral acids Nitric acid Nitro compounds nitrates nitrites Reducing agents Strong oxidizing agents Strong acids Violent polymerization may be caused by: iron/iron-containing compounds sodium hydrogensulfite sodium thiosulphate peroxi compounds Peroxides persulfates Impurities hydrogen peroxide

10.4 Conditions to avoid

Heat. Keep away from direct sunlight. Strong heating.

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

Acute toxicity estimate Oral - 1.321 mg/kg

(Calculation method)
LD50 Oral - Rat - male - 1.320 mg/kg
(OECD Test Guideline 401)
Acute toxicity estimate Inhalation - 4 h - 1,5 mg/l - dust/mist(Calculation method)
LC50 Inhalation - Rat - male and female - 4 h - 7,1 mg/l - dust/mist
(OECD Test Guideline 403)
Acute toxicity estimate Dermal - 300,06 mg/kg
(Calculation method)
LD50 Dermal - Rabbit - 500 - 1.000 mg/kg
Remarks: (ECHA)

Skin corrosion/irritation
Skin - Rabbit Result: Causes severe burns. - 3 min (OECD Test Guideline 404)
Serious eye damage/eye irritation
Eyes - Rabbit Result: Causes burns. (OECD Test Guideline 405) Remarks: Causes serious eye damage.
Respiratory or skin sensitisation
Buehler Test - Guinea pig Result: negative (OECD Test Guideline 406)
Germ cell mutagenicity
Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Carcinogenicity
no data available
Reproductive toxicity
no data available
Specific target organ toxicity - single exposure
May cause respiratory irritation. - Respiratory system
Specific target organ toxicity - repeated exposure
no data available
Aspiration hazard
no data available
Additional Information
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 85mg/l - 96 h(US-EPA)
Toxicity to daphniaand other aquaticinvertebrates
flow-through test

EC50 - Daphnia magna (Water flea) - > 130 mg/l -48 h(US-EPA)
Toxicity to algae

static test NOEC - Selenastrum capricornutum (green algae) - 8,2mg/l - 72 h
(OECD Test Guideline 201)
static test EC50 - Selenastrum capricornutum (green algae) - 45mg/l - 72 h
(OECD Test Guideline 201)
Toxicity to bacteria

static test EC10 - Pseudomonas putida - 100 mg/l - 16,5 h(DIN 38412)
Toxicity tofish(Chronic toxicity)
flow-through test NOEC - Danio rerio (zebra fish) - 10 mg/l - 35 d
(OECD Test Guideline 210)
Toxicity to daphniaand other aquaticinvertebrates(Chronictoxicity)
flow-through test NOEC - Daphnia magna (Water flea) - 53 mg/l -21 d
(OECD Test Guideline 211)

12.2 Persistence and degradability

Biodegradability Result: 86 % - Readily biodegradable. (OECD Test Guideline 301D)

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
Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.
Contaminated packaging
Dispose of as unused product.

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

SECTION 14: Transport information

DOT (US)

UN number: 2531	Packing group: II	Class: 8
Proper shipping name: METHACRYLIC ACID, STABILIZED	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data available
Environmental Hazards: YES		

IMDG

UN number: 2531	Packing group: II	EMS-No: no data available
Proper shipping name: METHACRYLIC ACID, STABILIZED		

IATA

UN number: 2531	Packing group: II	Class: 8
Proper shipping name: METHACRYLIC ACID, 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
Creation Date	13-Oct-2023
Revision Date	16-Sep-2025
Print Date	22-Sep-2025
Revision Summary	SDS sections updated v1

Disclaimer

 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. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.