

SAFETY DATA SHEET

Version 6.2 Revision Date 10/26/2021 Print Date 05/28/2022

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

1.1 Product identifiers

Product name : 2-Isocyanatoethyl methacrylate

Product Number : 477060
Brand : Aldrich
CAS-No. : 30674-80-7

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)

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 1), H330 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Respiratory sensitization (Category 1), H334 Skin sensitization (Category 1), H317

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

Aldrich - 477060

Millipore SigMa

Precautionary statement(s) 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. P280 Wear protective gloves/ eye protection/ face protection. P284 Wear respiratory protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + IF IN EYES: Rinse cautiously with water for several minutes. P310 Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.	P260 P264 P270 P270 P271 P271 P271 P272 P280 P280 P280 P280 P280 P301 + P312 + P330 P302 + P352 P304 + P340 + P310 P305 + P351 + P338 + P313 P305 + P351 + P338 + P310 P305 + P313 P306 P305 P305 P305 P306 P306 P306 P306 P306 P306 P306 P306	Hazard statement(s) H302 H315 H317 H318 H330 H334	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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. P280 Wear protective gloves/ eye protection/ face protection. P284 Wear respiratory protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + 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.	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. P280 Wear protective gloves/ eye protection/ face protection. P284 Wear respiratory protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + IF NEYES: Rinse cautiously with water for several minutes. P310 Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. Take off contaminated clothing and wash before reuse. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. Store locked up.	Precautionary statement(s)	
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P405 Store locked up.	P501 Dispose of contents/ container to an approved waste disposal plant.	P501	Dispose of contents/ container to an approved waste disposal

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : C₇H₉NO₃

Molecular weight : 155.15 g/mol
CAS-No. : 30674-80-7
EC-No. : 250-284-7

Component	Classification	Concentration
2-isocyanatoethyl methacrylate		
	Acute Tox. 4; Acute Tox.	<= 100 %
	1; Skin Irrit. 2; Eye Dam.	
	1; Resp. Sens. 1; Skin	
	Sens. 1; H302, H330,	
	H315, H318, H334, H317	

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2-Chloroethyl methacrylate		
	Acute Tox. 3; Eye Dam. 1; Aquatic Acute 3; Aquatic Chronic 3; H301, H331, H318, H402, H412	>= 0.1 - < 1 %

2-Isocyanatoethyl 3-chloro-2-methylpropionate			
	Acute Tox. 4; Skin Irrit. 2;	>= 0.1 - < 1	
	Eye Irrit. 2A; Resp. Sens.	%	
	1; STOT SE 3; Aquatic		
	Acute 3; Aquatic Chronic		
	3; H302, H315, H319,		
	H334, H335, H402, H412		

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 aiders need to protect themselves. 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. Consult a physician.

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: immediately make victim drink water (two glasses at most). Consult a physician.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) 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 (NOx)

Hydrogen cyanide (hydrocyanic acid)

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

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

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

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. 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.

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.

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.

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

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

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Storage stability

Recommended storage temperature 2 - 8 °C

Store under inert gas. Moisture sensitive. Heat sensitive.

Storage class

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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

Skin protection

required

Body Protection

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

Color: colorless, to, light yellow

b) Odor pungent

c) Odor Threshold No data availabled) pH No data available

e) Melting Melting point/range: -45 °C (-49 °F) - lit. point/freezing point

Initial boiling point 211 °C 412 °F - lit.

and boiling range

99 °C (210 °F) - closed cup - Regulation (EC) No. 440/2008, g) Flash point

Annex, A.9

No data available h) Evaporation rate

No data available Flammability (solid, i) gas)

Upper/lower flammability or

explosive limits

No data available

k) Vapor pressure 0.18 hPa at 20 °C (68 °F) - OECD Test Guideline 104

Vapor density No data available I)

m) Density 1.098 g/mL at 25 °C (77 °F) - lit.

1.1 at 25 °C (77 °F) - Regulation (EC) No. 440/2008, Annex, Relative density

n) Water solubility No data available o) Partition coefficient:

n-octanol/water

No data available

p) Autoignition 422 °C (792 °F) at 943.6 hPa

temperature

q) Decomposition No data available temperature

r) Viscosity 0 mm2/s at 25 °C (77 °F) - OECD Test Guideline 114 -

No data available s) Explosive properties

t) Oxidizing properties none

Other safety information 9.2

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Unstable upon depletion of inhibitor.

10.4 Conditions to avoid

Exposure to moisture. Heat. Strong heating.



10.5 Incompatible materials

Strong bases, Alcohols, Amines, Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimate Oral - 661.96 mg/kg

(Calculation method)

LD50 Oral - Rat - 670 mg/kg (2-isocyanatoethyl methacrylate)

Remarks: (RTECS)

Acute toxicity estimate Inhalation - 4 h - 0.0611 mg/l - vapor(Calculation method)

LC50 Inhalation - Rat - female - 4 h - 0.06 mg/l - vapor

(2-isocyanatoethyl methacrylate)

(OECD Test Guideline 403) Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit (2-isocyanatoethyl methacrylate)

Result: Irritating to skin. - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit (2-isocyanatoethyl methacrylate)

Result: Irritating to eyes. - 4 h

Remarks: (ECHA)

Respiratory or skin sensitization

- Guinea pig (2-isocyanatoethyl methacrylate)

Remarks: (ECHA)

Germ cell mutagenicity

No data available Test Type: Ames test

(2-isocyanatoethyl methacrylate) Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: gene mutation test (2-isocyanatoethyl methacrylate)

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

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

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

RTECS: 0Z4950000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Stomach - Irregularities - Based on Human Evidence

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - 162 mg/l

- 96 h (2-isocyanatoethyl methacrylate)

(OECD Test Guideline 203)

Toxicity to daphnia

and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - > 113 mg/l (2-

isocyanatoethyl methacrylate) (OECD Test Guideline 202)

static test NOEC - Daphnia magna (Water flea) - > 113 mg/l (2-

isocyanatoethyl methacrylate) (OECD Test Guideline 202)

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 97.4 mg/l - 72

h (2-isocyanatoethyl methacrylate)

(OECD Test Guideline 201)

static test NOEC - Pseudokirchneriella subcapitata - > 97.4 mg/l - 72

h (2-isocyanatoethyl methacrylate)

(OECD Test Guideline 201)

Toxicity to bacteria static test - activated sludge - > 20 mg/l - 28 d (2-isocyanatoethyl

methacrylate) Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d (2-isocyanatoethyl methacrylate)

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Result: 87 % - Readily biodegradable. (OECD Test Guideline 301B)

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 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)

UN number: 2206 Class: 6.1 Packing group: III

Proper shipping name: Isocyanates, toxic, n.o.s. (2-isocyanatoethyl methacrylate)

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG

UN number: 2206 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: ISOCYANATES, TOXIC, N.O.S. (2-isocyanatoethyl methacrylate)

IATA

UN number: 2206 Class: 6.1 Packing group: III

Proper shipping name: Isocyanates, toxic, n.o.s. (2-isocyanatoethyl methacrylate)

SECTION 15: Regulatory information

SARA 302 Components

2-isocyanatoethyl methacrylate CAS-No. Revision Date 30674-80-7 2013-02-08

SARA 313 Components

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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.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

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

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 and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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