

SIGMA-ALDRICH**Material Safety Data Sheet**

Version 3.0
Revision Date 01/22/2010
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 2-Isocyanatoethyl methacrylate
Product Number : 477060
Brand : Aldrich
Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone : +18003255832
Fax : +18003255052
Emergency Phone # : (314) 776-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 2-(Methacryloyloxy)ethyl isocyanate
Formula : C₇H₉NO₃

CAS-No.	EC-No.	Index-No.	Concentration
2-isocyanatoethyl methacrylate			
30674-80-7	250-284-7	-	<= 100 %
2-Chloroethyl methacrylate			
1888-94-4	217-566-1	-	<= 1 %
2-isocyanatoethyl 3-chloro-2-methylpropionate			
-	-	-	<= 1 %
2,6-di-tert-Butyl-p-cresol			
128-37-0	204-881-4	-	< 0.1 %

3. HAZARDS IDENTIFICATION**Emergency Overview**

OSHA Hazards
Target Organ Effect, Highly toxic by inhalation, Toxic by ingestion, Harmful by skin absorption, Respiratory sensitisier, Irritant

Target Organs**Eyes**

Other hazards which do not result in classification
Lachrymator.

HMIS Classification

Health hazard: 3
Chronic Health Hazard: *
Flammability: 1
Physical hazards: 0

NFPA Rating

Health hazard: 3
Fire: 1
Reactivity Hazard: 0

Potential Health Effects

Inhalation	May be fatal if inhaled. Causes respiratory tract irritation.
Skin	Harmful if absorbed through skin. Harmful if absorbed through skin. Causes skin irritation. May be fatal if absorbed through skin.
Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.

4. 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

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES**Flammable properties**

Flash point 97 °C (207 °F) - closed cup

Ignition temperature no data available

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

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

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

Store under inert gas. Moisture sensitive. Heat sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment**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).

Hand protection

Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form liquid

Odour pungent

Safety data

pH no data available

Melting point -45 °C (-49 °F) - lit.

Boiling point 211 °C (412 °F) - lit.

Flash point 97 °C (207 °F) - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 1,098 g/mL at 25 °C (77 °F)

Water solubility no data available

10. STABILITY AND REACTIVITY**Storage stability**

Stable under recommended storage conditions.

Conditions to avoid

Exposure to moisture, Heat.

Materials to avoid

Strong bases, Alcohols, Amines

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen cyanide (hydrocyanic acid)

Contains the following stabiliser(s):

BHT (<0.1 %)

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD50 Oral - rat - 670 mg/kg

LC50 Inhalation - rat - 6 h - 4 ppm

Irritation and corrosion

no data available

Sensitisation

May cause allergic respiratory reaction.

Chronic exposure

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component 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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity - rat - male - Inhalation

Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

Potential Health Effects

Inhalation May be fatal if inhaled. Causes respiratory tract irritation.

Skin Harmful if absorbed through skin. Harmful if absorbed through skin. Causes skin irritation. May be fatal if absorbed through skin.

Eyes Causes eye irritation.

Ingestion Toxic if swallowed.

Target Organs Eyes,

Additional Information

RTECS: OZ4950000

12. ECOLOGICAL INFORMATION

Elimination Information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

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)

Marine pollutant: No

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)

Marine pollutant: No

IATA

UN-Number: 2206 Class: 6.1 Packing group: III

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

15. REGULATORY INFORMATION

OSHA Hazards

Target Organ Effect, Highly toxic by inhalation, Toxic by ingestion, Harmful by skin absorption., Respiratory sensitizer, Irritant

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

2-isocyanatoethyl methacrylate

CAS-No.
30674-80-7

Revision Date
2007-07-01

SARA 313 Components

SARA 313: 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

Aldrich - 477060

Delivery 0835534609-000010 Purchase Order 37546X

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Massachusetts Right To Know Components

2-isocyanatoethyl methacrylate

CAS-No.
30674-80-7

Revision Date
2007-07-01

Pennsylvania Right To Know Components

2-isocyanatoethyl methacrylate

CAS-No.
30674-80-7

Revision Date
2007-07-01

New Jersey Right To Know Components

2-Chloroethyl methacrylate

CAS-No.
1888-94-4

Revision Date
2007-07-01

2-Isocyanatoethyl 3-chloro-2-methylpropionate

2-Isocyanatoethyl methacrylate

-

2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further Information

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Delivery 0835534609-000010 Purchase Order 37546X

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