

2-Isocyanatoethyl methacrylate Safety Data Sheet 4349101 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/04/2017 Version: 1.0

SECTION 1: Identification		
1.1. Identification Product form	: Substance	
Substance name	: 2-Isocyanatoethyl methacrylate	
CAS No Product code	: 30674-80-7 : 4349-1-01	
Formula	: C7H9NO3	
Synonyms Other means of identification	: 2-(Methacryloyloxy)ethyl isocyanate; IEM	
	: MFCD00080536	
1.2. Relevant identified uses of the substance/mixture	substance or mixture and uses advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the sat	fety data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs		
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identificat	ion	
2.1. Classification of the substance		
Classification (GHS-US)		
Resp. Sens. 1H334 - May cauSkin Sens. 1H317 - May cauSTOT SE 3H335 - May cau	seri intation serious eye irritation use allergy or asthma symptoms or breathing difficulties if inhaled use an allergic skin reaction use respiratory irritation	
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	: GHS06 GHS07 GHS08	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	 H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H330 - Fatal if inhaled H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 - May cause respiratory irritation 	
Precautionary statements (GHS-US)	 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/protective clothing/eye protection/face protection P284 - In case of inadequate ventilation wear respiratory protection	

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	P302 P304 P304 P310 P310 P322 P332 P332 P332 P333 P3342 P363 P366 P403 P403	1+P312 - If swallowed: Call a POISON C 2+P352 - If on skin: Wash with plenty of s 4+P340 - If inhaled: Remove person to fm 5+P351+P338 - If in eyes: Rinse cautious es, if present and easy to do. Continue rin 0 - Immediately call a POISON CENTER 0 - Specific treatment is urgent (see suppl 1 - Specific treatment (see supplemental 0 - Rinse mouth 2+P313 - If skin irritation occurs: Get med 3+P313 - If skin irritation or rash occurs: Of 7+P313 - If eye irritation persists: Get med 2+P311 - If experiencing respiratory sym 2+P364 - Take off contaminated clothing 3 - Wash contaminated clothing before re 3+P233 - Store in a well-ventilated place. 5 - Store locked up 1 - Dispose of contents/container to an ap	toop and water esh air and keep sly with water for nsing or doctor/ physic lemental first aid first aid instruction lical advice/atter Get medical advid dical advice/atter tooms: Call a poi and wash it befor use Keep container	comfortable for breathing several minutes. Remove contact instructions on this label) ons on this label) ntion ce/attention ntion son center/doctor/ re reuse tightly closed
2.3. Other hazards				
Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS US)	: Lach	irymator.		
Not applicable				
SECTION 3: Composition/informat	ion on ir	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Isocyanatoethyl methacrylate (Main constituent)		(CAS No) 30674-80-7	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		use of accident or if you feel unwell, seek re possible). Move the affected personne		
First-aid measures after inhalation		ove person to fresh air and keep comfor iration. Get immediate medical advice/att		g. If not breathing, give artificial
First-aid measures after skin contact	: Was	h with plenty of soap and water. Get imm	ediate medical a	advice/attention.
First-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Ge		
First-aid measures after ingestion		IOT induce vomiting. Never give anything the out with water. Get immediate medical		
4.2. Most important symptoms and eff	ects, both	acute and delayed		
	: The	acute and delayed most important known symptoms and eff and/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries	: The 2.2)	most important known symptoms and eff and/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate media	: The 2.2)	most important known symptoms and eff and/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate media Treat symptomatically.	: The 2.2)	most important known symptoms and eff and/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries	: The 2.2)	most important known symptoms and eff and/or in section 11.	ects are describe	ed in the labelling (see section

Hand protection Eye protection

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5.2. Special hazards arising from the	
Fire hazard	: Thermal decomposition generates: Carbon oxides. Nitrogen oxides.
Explosion hazard	 Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	e equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
Avoid release to the environment. Notify auth	norities if product enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	e
7.1. Precautions for safe handling	
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
Heat-ignition	: Heat sensitive.
Storage area	: Store in dry, well-ventilated area.
SECTION 8: Exposure controls/pe	ersonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Even whether attack	Chaminal papellas an afatu elasona. Essa abiald. 20 OED 4040 422. E

EN (English US)

: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.

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Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	 In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties 0.4 Information on basis abusised and abamical argumentic

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: -45 °C
Freezing point	: No data available
Boiling point	: 211 °C
Flash point	: 97 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.098 g/ml (@ 25 °C)
Molecular mass	: 155.15 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.45 (@ 20 °C)

SECTION 10: Stability and reactivity

SLOII	on ro. Stability and reactivity
10.1.	Reactivity
No addit	ional information available
10.2.	Chemical stability
The proc	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addit	ional information available
10.4.	Conditions to avoid
Keep aw	vay from heat, sparks and flame. Moisture.
10.5.	Incompatible materials
Acids. A	Icohols. Amines. Bases. Strong oxidizing agents. Water.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

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SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Fatal if inhaled.

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LD50 oral rat	670 mg/kg
LC50 inhalation rat (ppm)	4 ppm (Exposure time: 6 h)
ATE US (oral)	670.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTIO	DN 12: Ecological information
12.1.	Toxicity
No additio	onal information available
12.2.	Persistence and degradability
No additio	onal information available
12.3.	Bioaccumulative potential
No additio	onal information available
12.4.	Mobility in soil
No additio	onal information available
12.5.	Other adverse effects

No additional information available

SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN2206 Isocyanates, toxic, n.o.s. (flash point more than 61 degrees C and boiling point less than 300 degrees C), 6.1, III
UN-No.(DOT)	: UN2206
Proper Shipping Name (DOT)	: Isocyanates, toxic, n.o.s.
	flash point more than 61 degrees C and boiling point less than 300 degrees C
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

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according to Federal Register / Vol. 77, No. 58 / Monday,	Mar	rch 26, 2012 / Rules and Regulations
Hazard labels (DOT)	:	6.1 - Poison
		6
Packing group (DOT)		III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)		203
DOT Packaging Bulk (49 CFR 173.xxx)		241
DOT Symbols		G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	:	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)		153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location		E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	:	25 - Shade from radiant heat,40 - Stow "clear of living quarters"
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	:	2206
Proper Shipping Name (IMDG)	:	ISOCYANATES, TOXIC, N.O.S.
Class (IMDG)	:	6.1 - Toxic substances
Packing group (IMDG)	:	III - substances presenting low danger
Air transport		
UN-No. (IATA)		2206
Proper Shipping Name (IATA)		Isocyanates, toxic, n.o.s.
Class (IATA)		6.1 - Toxic Substances
Packing group (IATA)		III - Minor Danger
SECTION 15: Doculatory information		- -
SECTION 15: Regulatory information 15.1. US Federal regulations		
2-Isocyanatoethyl methacrylate (30674-80-7) Listed on the United States TSCA (Toxic Subst Listed on the United States SARA Section 302	tanc	es Control Act) inventory
SARA Section 302 Threshold Planning Quantit		PQ) 100 lb
	<i>,</i> (,	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2.	International	l regulations

CANADA

2-Isocyanatoethyl methacrylate (30674-80-7)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

National regulations

2-Isocyanatoethyl methacrylate (30674-80-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

2-Isocyanatoethyl methacrylate (30674-80-7)	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 1 (Inhalation)	Acute toxicity (inhalation) Category 1	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Resp. Sens. 1	Respiratory sensitisation Category 1	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization Category 1	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H330	Fatal if inhaled	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H335	May cause respiratory irritation	

NEPA	hoalth	hazard
INFFA	neaim	nazaru

NFPA fire hazard NFPA reactivity : 1 - Must be preheated before ignition can occur.

: 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



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HMIS III Rating	
Health	: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

SDS US (GHS HazCom 2012)

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 offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.