

Safety Data Sheet 2124102

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/29/2021 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 2-Hydroxypropyl acrylate	
CAS No	: 999-61-1	
Product code	: 2124-1-02	
Formula	: C6H10O3	
Other means of identification	: MFCD00021900	
1.2. Relevant identified uses of the substa	ance 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 safety d	ata sheet	
SynQuest Laboratories, Inc.		
P.O. Box 309 Alachua, FL 32615 - United States of America		
T (386) 462-0788 - F (386) 462-7097		
info@synquestlabs.com - www.synquestlabs.com		
1.4. Emergency telephone number	· (844) E92 4086 (2E Company Account 10060)	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mi	xture	
Classification (GHS-US)		
Flam. Liq. 4H227 - Combustible liquidAcute Tox. 3 (Oral)H301 - Toxic if swallowedAcute Tox. 2 (Dermal)H310 - Fatal in contact with skinAcute Tox. 3 (Inhalation)H331 - Toxic if inhaledSkin Corr. 1CH314 - Causes severe skin burns and eye damageEye Dam. 1H318 - Causes serious eye damageSkin Sens. 1H317 - May cause an allergic skin reactionSTOT SE 3H335 - May cause respiratory irritationAquatic Acute 2H401 - Toxic to aquatic lifeAquatic Chronic 2H411 - Toxic to aquatic life with long lasting effects		
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US) : GHS05 GHS06 GHS07 GHS09		
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	 H227 - Combustible liquid H301+H331 - Toxic if swallowed or if inhaled H310 - Fatal in contact with skin H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation 	

Precautionary statements (GHS-US)

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P260 - Do not breathe dust/fume/gas/mist/vapors/spray :

H411 - Toxic to aquatic life with long lasting effects

P262 - Do not get in eyes, on skin, or on clothing P264 - Wash skin thoroughly after handling

H335 - May cause respiratory irritation

- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area

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2.3 Other bazarda	 P272 - Contaminated work clothing must not be allowed out of the workplace P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - If swallowed: Immediately call a poison center/doctor/ P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P302+P352 - If on skin: Wash with plenty of soap and water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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 P310 - Immediately call a POISON CENTER or doctor/ physician P311 - Call a POISON CENTER or doctor/physician P321 - Specific treatment (see supplemental first aid instructions on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P361 - Take off immediately all contaminated clothing P363 - Wash contaminated clothing before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P391 - Collect spillage P403+P235 - Store in a well-ventilated place. Keep cool P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type	: Mono-constituent
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Name	Product identifier	%	Classification (GHS-US)
2-Hydroxypropyl acrylate (Main constituent)	(CAS No) 999-61-1	<= 100	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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 :	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.		
First-aid measures after inhalation :	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact :	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.		
First-aid measures after eye contact :	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid measures after ingestion :	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and effects	, both acute and delayed		
Symptoms/injuries :	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
Symptoms/injuries after inhalation :	Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.		

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4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the subs	stance or mixture
Fire hazard	: Thermal decomposition generates: Carbon oxides.
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.
5.3. Advice for firefighters	
	: 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 measure	ures
6.1. Personal precautions, protective equi	ipment 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 authoritie	s if product enters sewers or public waters.
6.3. Methods and material for containmen	t 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	
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, including	any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C
Storage area	: Store in dry, well-ventilated area.
SECTION 8: Exposure controls/perso	nal protection

8.1. **Control parameters**

No additional information available

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

9.1. Information on basic physical an Physical state	d chemical properties
Physical state	
i nysicai state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 227 °C
Flash point	: 89 °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	: 1.06 g/ml
Molecular mass	: 130.1418 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

No additional information available

SECTION 10: Stability and reactivity		
10.1.	Reactivity	
No add	itional information available	
10.2.	Chemical stability	
The pro	oduct is stable at normal handling and storage conditions.	
10.3.	Possibility of hazardous reactions	
No add	itional information available	
10.4.	Conditions to avoid	
Keep a	way from heat, sparks and flame.	
10.5.	Incompatible materials	
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Strong acids. Strong oxidizing agents.

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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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

2-Hydroxypropyl acrylate (999-61-1)	
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	50.000 mg/kg body weight
ATE US (gases)	700.000 ppmV/4h
ATE US (vapors)	3.000 mg/l/4h
ATE US (dust, mist)	0.500 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: 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
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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

SECTION 13: Disposal considerations		
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	: UN2922 Corrosive liquids, toxic, n.o.s., 8, II	
UN-No.(DOT)	: UN2922	

Corrosive liquids, toxic, n.o.s.

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Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
	6.1 - Poison
Packing group (DOT)	: II - Medium Danger
Dangerous for the environment	: Yes
Marine pollutant	: Yes
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and
	DOT 57 portable tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T7 - 4 178.274(d)(2) Normal
	temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
DOT Vessel Stowage Location	: B - (i) 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; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2922
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, TOXIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 2922
Proper Shipping Name (IATA)	: Corrosive liquid, toxic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger

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SECTION 15: Regulatory information

15.1. US Federal regulations

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

2-Hydroxypropyl acrylate	CAS No 999-61-1	100%

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 regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

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 toxicity (dermal) Category 2	
Acute toxicity (inhalation) Category 3	
Acute toxicity (oral) Category 3	
Hazardous to the aquatic environment - Acute Hazard Category 2	
Hazardous to the aquatic environment - Chronic Hazard Category 2	
Serious eye damage/eye irritation Category 1	
Flammable liquids Category 4	
Skin corrosion/irritation Category 1C	
Skin sensitization Category 1	
Specific target organ toxicity (single exposure) Category 3	
Combustible liquid	
Toxic if swallowed	
Fatal in contact with skin	
Causes severe skin burns and eye damage	
May cause an allergic skin reaction	
Causes serious eye damage	
Toxic if inhaled	
May cause respiratory irritation	
Toxic to aquatic life	
Toxic to aquatic life with long lasting effects	

NFPA health hazard

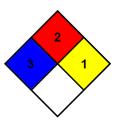
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity

NFPA fire hazard

 temperature before ignition can occur.
 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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
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.