

Safety Data Sheet 2324145 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/01/2019 Version: 1.0

CAS No Product code Formula Synonyms Other means of identification 1.2. Relevant identified uses of the subst Use of the substance/mixture 1.3. Details of the supplier of the safety d 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 1.4. Emergency telephone number Emergency number	<u>n</u> : (844) 523-4086 (3E Company - Account 10069)
Substance name CAS No Product code Formula Synonyms Other means of identification 1.2. Relevant identified uses of the subst Use of the substance/mixture 1.3. Details of the supplier of the safety d 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 1.4. Emergency telephone number Emergency number	 1,3-Butanediol diacrylate 19485-03-1 2324-1-45 C10H14O4 Acrylic acid, 1,3-butylene glycol diester / Butane-1,3-diyl diacrylate / 1-Methyltrimethylene diacrylate / 1,3-Butylene glycol diacrylate / 2-Propenoic acid, 1,1'-(1-methyl-1,3-propanediyl) ester / Acrylic acid, diester with 1,3-butanediol / Acrylic acid, 1-methyltrimethylene ester / 1,3 Butanediol diacrylate MFCD00039821 tance or mixture and uses advised against Laboratory chemicals Manufacture of substances Scientific research and development chata sheet n (844) 523-4086 (3E Company - Account 10069)
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Emergency number	
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mi	ixture
Classification (GHS-US)	
Eye Dam. 1 H318 - Causes serious	skin burns and eye damage s eye damage rgy or asthma symptoms or breathing difficulties if inhaled allergic skin reaction
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS05 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H227 - Combustible liquid H312 - Harmful in contact with skin H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled 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 fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling 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
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P284 - In case of inadequate ventilation wear respiratory protection 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 P321 - Specific treatment (see supplemental first aid instructions on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P342+P311 - If experiencing respiratory symptoms: Call a poison center/doctor/... P362+P364 - Take off contaminated clothing and wash it before reuse P363 - Wash contaminated clothing before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed 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

- -

3.1. Substance

- - -

Name	: Mono-constituent Product identifier	%	Classification (GHS-US)
1,3-Butanediol diacrylate (Main constituent)	(CAS No) 19485-03-1	<= 100	Flam. Liq. 4, H227 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1B, 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 measure	S
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 e	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.
4.3. Indication of any immediate med	dical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.

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5.2. Special hazards arising from	the substance 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	
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 mea	sures
6.1. Personal precautions, protective ed	uipment 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 authority	ties if product enters sewers or public waters.
6.3. Methods and material for containme	ent 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, includi	ng 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 Use explosion proof refrigerator
Storage area	: Store in dry, well-ventilated area.

SECTION 8: Exposure controls/personal 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.		owers
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.		
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SECTION 9: Physical and chemica	
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.
Respiratory protection	 In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.

9.1. Information on basic physical and c		
Physical 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	:	No data available
Flash point	:	93 °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	:	1.034 g/ml (@ 25 °C)
Molecular mass	:	198.2158 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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions. Stabilized product: MEHQ.

10.3. Possibility of hazardous reactions

May polymerize.

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizing agents. Free radical generators.

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

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Acute toxicity	: Dermal: Harmful in contact with skin.	
1,3-Butanediol diacrylate (19485-03-1)		
LD50 oral rat	3540 μl/kg	
ATE US (dermal)	1100.000 mg/kg body weight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Causes serious eye damage.	
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	
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 informatio	n		
Department of Transportation (DOT)			
In accordance with DOT			
Transport document description	: UN2922 Corrosive liquids, toxic, n.o.s., 8, II		
UN-No.(DOT)	: UN2922		
Proper Shipping Name (DOT)	: Corrosive liquids, toxic, n.o.s.		
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		

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 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	DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
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 in authorized. IB2 - Authorized IBCS: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kP at at 50 C (11 b tar at 12 F), or 130 kP at 55 C (13 barr at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal	DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT 57 portable tanks are not authorized. B2- B2- Authorized BCs: Metal (3A, 3B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 55 C (1.30 kPa at 55 C (1.	DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49) : 30 L 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 yessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per get each 3 m of overall vessel length; and (ii) "On deck only" or passengers, or one passenger yeer ach 3 m of overall vessel length; and (ii) "On deck only" or 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) : II - 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	DOT Special Provisions (49 CFR 172.102)	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
(49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 30 L 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 passenger seesel 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		
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Packing group (IATA) : II - Medium Danger	Class (IATA)	: 8 - Corrosives
	Packing group (IATA)	: II - Medium Danger
	SECTION 15: Regulatory information	

1,3-Butanediol diacrylate (19485-03-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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 1,3-Butanediol diacrylate (19485-03-1) Listed on the Canadian NDSL (Non-Domestic Substances List)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

EU-Regulations

No additional information available

National regulations

1,3-Butanediol diacrylate (19485-03-1)

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 the Korean ECL (Existing Chemicals List) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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 Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Flam. Liq. 4	Flammable liquids Category 4
	Resp. Sens. 1B	Respiratory sensitisation Category 1B
	Skin Corr. 1B	Skin corrosion/irritation Category 1B
	Skin Sens. 1	Skin sensitization Category 1
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H227	Combustible liquid
	H312	Harmful in contact with skin
	H314	Causes severe skin burns and eye damage
	H317	May cause an allergic skin reaction
	H318	Causes serious eye damage
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H335	May cause respiratory irritation
NFPA 1	health hazard fire hazard reactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 0 - Materials that will not burn. : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
Health	II Rating	: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	•	: 0 Minimal Hazard - Materials that will not burn
Physica	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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.