

Safety Data Sheet 23243A3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/05/2016 Version: 1.0

Product form : Substance anne : 2,2-Diluoroship methacrylate Substance name : 2,2-Diluoroship methacrylate CAS No : 116355-49-8 Product code : 2324-3-43 Formula : COHBF202 Other means of identification : MFCD19442069 1.2. Relevant identified uses of the substance or nixture 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 data sheet SynOuest Laboratories, Inc. No. 100, 97, 970-978 Store of the substance or mixture and uses advised against 1.4. Emergency telephone number Emergency number : (844) \$23-4066 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification 1.4. Emergency telephone number Emergency number : (844) \$23-4066 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification 2.1. Classification of the substance or mixture Classification (GHS-US) Fill Let of H-phrases: see section 16 2.2. Label elements GH3-US May accuse selfor advised in a vapour Skin III 2, Hazis : Causes selfor advised in a vapour Skin III 2, Hazis : Causes selfor advised in a vapour Skin III 2, Hazis : Causes selfor advised in a vapour Skin III 2, Hazis : Causes selfor advised in a vapour Skin III 2, Hazis : Causes selfor advised in a vapour Skin III 2, Hazis : Causes selfor advised in a vapour Skin III 2, Hazis : Skin IIII 2, Hazis : Skin IIII 2, Hazis : Skin IIII 3, Hajis : Causes selfor advised in a vapour Skin III 2, Hazis : Skin IIII 3, Hajis : Causes selfor advised in a vapour Skin III 2, Hazis : Skin IIII 2, Hazis : Skin IIII 3, Hajis : Causes selfor advised in a vapour Full Let of H-phrases: see section 16 22.2. Label elements GH3-US) Skin IIII 3, Hajis : Causes selfor advised in a vapour Hazis : Causes selfor advised in a vapour Hazis : Causes selfor advised in a mask-tot surfaces. No smoking P23 - Vacio Bavay from heatSkinger Skin formalia IIII 3, Skin IIIII 3, IIII 3, Skin IIIIIII 3, IIIIIIIIIIIIIIIIIIIIIIIIIII		
Product form : Substance anne : 2.2.Diluorosity methacrylate Substance name : 2.2.Diluorosity methacrylate CAS No : 116355-49-8 Product code : 2224-3-43 Product code : 2224-3-43 Formula : COHBF202 Other means of identification : MFCD 19442069 1.2. Relevant identified uses of the 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 safety data sheet SynOues Liboratories, Inc. Another, PL2026 Marting States of America Tr (386) 462-0789 - F (386) 462-7007 info/18 yougetables com - youx yourgetables com 1.4. Emergency telephone number Emergency mether : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) Identification 2.1. Classification of the substance or mixture Classification (GHS-US) Fam. Li, 2. H225 - Highly flammable liquid and vapour Skin Int 2. H315 - Causes since reparatory initiation FUI bet of H-phrases: see section 16 2.2. Label elements GHS-US in the substance reparatory initiation FUI bet of H-phrases: see section 16 2.2. Label elements GHS-US in the your your your your your your your your	1: Identification	
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Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOuest Laboratonics, Inc. P.O. Box 2009 Machua, PL 2005 - United States of America T (386) 462-0788 - F (386) 462-7097 If (387) 4731 - Causes serious equivalent of the substance or mixture Classification of the substance or mixture Classification of the substance or mixture Classification of UHS-US) Septem 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) If (225 - Highly flammable liquid and vapour Hazard pictograms (GHS-US) If (225 - Highly flammable liquid and vapour Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (225 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (226 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (226 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (226 - Highly flammable liquid and vapor Hazard statements (GHS-US) If (226	of identification : MFCD	069
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P305+P351+P356 - II In eyes. Rinse caulously with water for several minutes. Ref	v statements (GHS-US) : P210 P233 P240 P241 P242 P243 P261 P264 P264 P271 P280 P302 P303 skin w P304	away from heat/sparks/open flames/hot surfaces. No smoking container tightly closed nd/bond container and receiving equipment explosion-proof electrical/ventilating/lighting equipment only non-sparking tools precautionary measures against static discharge breathing fumes, mist, spray, vapors skin thoroughly after handling only outdoors or in a well-ventilated area protective gloves/protective clothing/eye protection/face protection - If on skin: Wash with plenty of soap and water -P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse er/shower
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	P321 - Specific trea P332+P313 - If skii P337+P313 - If eye P362+P364 - Take P370+P378 - In ca P403+P233 - Store P403+P235 - Store P405 - Store locke	SON CENTER or doctor/ atment (see supplement n irritation occurs: Get m e irritation persists: Get r e off contaminated clothin use of fire: Use dry sand, e in a well-ventilated place e in a well-ventilated place	physician if you fe tal first aid instruct nedical advice/atte medical advice/atte ng and wash it bel dry chemical or a ce. Keep cool	ions on this label) ention ention fore reuse Icohol-resistant foam to extinguish r tightly closed
2.3. Other hazards No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informatio	n on ingredients			
3.1. Substance	in on ingredients			
Substance type	: Mono-constituent			
		ontifior	0/	Classification (CHC UC)
Name 2,2-Difluoroethyl methacrylate	(CAS No) 116		% <= 100	Classification (GHS-US) Flam. Liq. 2, H225
(Main constituent)		500-40-0	< <u>-</u> 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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		t or if you feel unwell, se love the affected person		immediately (show the label contaminated area.
First-aid measures after inhalation		fresh air and keep comf edical advice/attention.	ortable for breath	ing. If not breathing, give artificial
First-aid measures after skin contact		of soap and water. Get m		
First-aid measures after eye contact	present and easy t	o do. Continue rinsing. (Get medical advice	
First-aid measures after ingestion		miting. Never give anyth ter. Get medical advice/a		n unconscious person. Rinse
4.2. Most important symptoms and effe				
Symptoms/injuries	: The most importan 2.2) and/or in section	<i>,</i> ,	effects are descril	bed in the labelling (see section
4.3. Indication of any immediate medica	I attention and specia	I treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
			y powder. Water s	pray. Use extinguishing media
	appropriate for sur			
Suitable extinguishing media				
Suitable extinguishing media 5.2. Special hazards arising from the su	bstance or mixture	sition generates: Carbon	ı oxides. Hydroger	n fluoride.
Suitable extinguishing media	Ibstance or mixture Thermal decompose Risk of explosion if	•	ent. Use water sp	ray or fog for cooling exposed
Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard	Ibstance or mixture Thermal decompose Risk of explosion if	f heated under confinem	ent. Use water sp	ray or fog for cooling exposed
Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard	 bstance or mixture Thermal decompose Risk of explosion if containers. May for 	f heated under confinem	ent. Use water sp vapor-air mixture.	ray or fog for cooling exposed

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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equ		
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes,	
Concrai medoureo	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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.	
6.2. Environmental precautions		
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters.	
6.3. Methods and material for containment	nt 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		
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.	
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.	
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, includin	g any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage temperature	: -2510 °C Use explosion proof freezer	
Storage area : Store in dry, well-ventilated area.		

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

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.
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.

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SECTION 9: Physical and chemica	al properties	
9.1. Information on basic physical an	d chemical properties	
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	: No data available	
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	
Molecular mass	: 150.12 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 reactiv	ity	

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.

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		
: Not classified		
: Causes skin irritation.		
: Causes serious eye irritation.		
: Not classified		

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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

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available
12.5.	Other adverse effects
	itional 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	: UN3272 Esters, n.o.s., 3, II
UN-No.(DOT)	: UN3272
Proper Shipping Name (DOT)	· Esters nos

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

- : Esters, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : II Medium Danger
- : 202
- : 242

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DOT Special Provisions (49 CFR 172.102)	 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
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
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.
Other information	: No supplementary information available.
TDG No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3272
Proper Shipping Name (IMDG)	: ESTERS, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 3272
Proper Shipping Name (IATA)	: Esters, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger
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:

2,2-Difluoroethyl methacrylate	CAS No 116355-49-8	100%
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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 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

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SECTION 16: Other information

Full text of H-phrases: Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 2	Flammable liquids Category 2	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT SE 3 Specific target organ toxicity (single exposure) Ca		
H225	Highly flammable liquid and vapor	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
NFPA health hazard NFPA fire hazard NFPA reactivity	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 3 - Liquids and solids that can be ignited under almost all ambient conditions. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	
HMIS III Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC) 	
Physical	: 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.