

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2324358 Issue date: 11.07.2016 Revision date: 11.12.2023 Version: 1.0

SECTION 1: Identification

SECTION 1: Identification	
1.1. Identification	
Product form Substance name CAS-No. Product code Formula Synonyms Other means of identification	 Substance 2,2,3,3,4,4,5,5-Octafluoro-1,6-hexyl diacrylate 2264-01-9 2324-3-58 C12H10F8O4 1H,1H,6H,6H-Perfluorohexyl diacrylate MFCD00078412
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Supplier	
SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 32615 United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	<u>m</u>
1.4. Emergency telephone number	
Emergency number SECTION 2: Hazard(s) identification	: (844) 523-4086 (3E Company - Account 10069)
2.1. Classification of the substance or m	nixture
GHS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Specific target organ toxicity – Single exposure, Respiratory tract irritation Full text of H statements : see section 16	H315Causes skin irritationH319Causes serious eye irritationCategory 3,H335May cause respiratory irritation
2.2. GHS Label elements, including prec	autionary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS US)	: P261 - Avoid breathing fumes, mist, spray, vapors. P264 - Wash skin thoroughly after handling

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P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of soap and water
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.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P321 - Specific treatment (see supplemental first aid instructions on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
2,2,3,3,4,4,5,5-Octafluoro-1,6-hexyl diacrylate (Main constituent)	CAS-No.: 2264-01-9		Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

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 medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get 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 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 medical advice/attention.
4.2. Most important symptoms and effective states and effective symptoms and effective symp	ffects (acute and delayed)
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2)

and/or in section 11.

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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media			
5.2. Specific hazards arising from the chen	nical		
Fire hazard Explosion hazard	 Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. 		
5.3. Special protective equipment and prec	autions for fire-fighters		
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. 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 measures				
6.1. Personal precautions, protective 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.			

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment 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

6.2. Environmental precautions

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 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. 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 a	ny incompatibilities
Technical measures Storage conditions Incompatible materials Storage temperature Storage area	 Comply with applicable regulations. Keep container closed when not in use. Refer to Section 10 on Incompatible Materials. 2 - 8 °C Store in dry, well-ventilated area.
SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	
2,2,3,3,4,4,5,5-Octafluoro-1,6-hexyl diacrylat	te (2264-01-9)
No additional information available	
8.2. Appropriate engineering 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.
8.3. Individual protection measures/Persona	
8.3. Individual protection measures/Persona Hand protection:	
-	Il protective equipment
Hand protection:	Il protective equipment
Hand protection: protective gloves. 29 CFR 1910.138: Hand Protection	n
Hand protection: protective gloves. 29 CFR 1910.138: Hand Protection Eye protection:	n
Hand protection: protective gloves. 29 CFR 1910.138: Hand Protection Eye protection: Chemical goggles or safety glasses. Face shield. 29	n
Hand protection: protective gloves. 29 CFR 1910.138: Hand Protection Eye protection: Chemical goggles or safety glasses. Face shield. 29 Skin and body protection:	n
Hand protection: protective gloves. 29 CFR 1910.138: Hand Protection Eye protection: Chemical goggles or safety glasses. Face shield. 29 Skin and body protection: Wear suitable protective clothing	n CFR 1910.133: Eye and Face Protection

Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
pH	: 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		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Density	: 1,2537 g/ml (@ 28 °C)		
Molecular mass	: 370,19 g/mol		
Solubility	: No data available		
Partition coefficient n-octanol/water (Log Pow)	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosion limits	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
9.2. Other information			
Refractive index	: 1,4 (@ 28 °C)		

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.

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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11.1. Information on toxicological	effects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
/iscosity, kinematic	: No data available
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2 and/or in section 11.

SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability

	2,2,3,3,4,4,5,5-Octafluoro-1,6-hexyl diacrylate (2264-01-9)		
Persistence and degradability		Not readily biodegradable. May cause long-term adverse effects in the environment. PBT -	
		Persistent, Bioaccumulative and Toxic.	

12.3. Bioaccumulative potential

2,2,3,3,4,4,5,5-Octafluoro-1,6-hexyl diacrylate (2264-01-9)		
Bioaccumulative potential	Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established.	
12.4. Mobility in soil		

No additional information available

1	2.5. Other adverse effects			
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No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. See the EPA's Interim Guidance on PFAS Destruction and Disposal. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible. 	

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Ecology - waste materials	: This material is considered to be a "Forever chemical". Prevent any possible release to the environment. Do not discharge into drains. Take all necessary measures to prevent accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems, or emergency response.
SECTION 14: Transport informati	on
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not regulated Not regulated Not regulated Not regulated
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not regulated
TDG Transport hazard class(es) (TDG)	: Not regulated
IMDG Transport hazard class(es) (IMDG)	: Not regulated
IATA Transport hazard class(es) (IATA)	: Not regulated
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not regulated Not regulated Not regulated Not regulated Not regulated
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT Not regulated	
TDG Not regulated	
IMDG Not regulated	
IATA Not regulated	
14.7. Transport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code
Not applicable	

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SECTION 15: Regulatory information				
15.1. US Federal regulations				
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:				
2,2,3,3,4,4,5,5-Octafluoro-1,6-hexyl diacrylate	CAS-No. 2264-01-9	100%		
15.2. International regulations				
CANADA				
No additional information available				
EU-Regulations				
No additional information available				
National regulations				
2,2,3,3,4,4,5,5-Octafluoro-1,6-hexyl diacrylate (2264-01-9)				

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, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases	
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury. NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur. NFPA reactivity 0 - Material that in themselves are normally stable, even under fire ÷ conditions. Hazard Rating : 2 Moderate Hazard - Temporary or minor injury may occur Health 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 : 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.

Safety Data Sheet (SDS), USA

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