

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2324314 Issue date: 05.04.2016 Revision date: 11.12.2023 Version: 1.0

SECTION 1. Identificatio

SECTION 1: Identification			
1.1. Identification			
Product form Substance name CAS-No. Product code Formula Synonyms Other means of identification	: 3063-94-3 : 2324-3-14 : C7H6F6O2 : HFIP-M; 1,1,1	2,2,2-Trifluoro-	ylate roisopropyl methacrylate; 2,2,2-Trifluoro-1-(trifluoromethyl)ethyl 1-(trifluoromethyl)methacrylic acid, ethyl ester
1.2. Recommended use and restrictions or	n use		
Use of the substance/mixture	: Laboratory ch Manufacture o Scientific rese		opment
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			
1.4. Emergency telephone number			
Emergency number	: (844) 523-408	86 (3E Company	y - Account 10069)
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mix	ture		
GHS US classification			
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Specific target organ toxicity – Single exposure, Ca	tegory 3,	H315 H319 H335	Causes skin irritation Causes serious eye irritation May cause respiratory irritation

Full text of H statements : see section 16 2.2. GHS Label elements, including precautionary statements

GHS US labeling

Respiratory tract irritation

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

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Precautionary statements (GHS US)	 P261 - Avoid breathing fumes, mist, spray, vapors. P264 - Wash skin thoroughly after handling 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. 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.
	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
Hexafluoroisopropyl methacrylate (Main constituent)	CAS-No.: 3063-94-3		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.

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4.2. Most important symptoms and effects (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.		
4.3. Immediate medical attention and s	special treatment, if necessary		
Treat symptomatically.			
SECTION 5: Fire-fighting measures	S		
5.1. Suitable (and unsuitable) extinguis	shing media		
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media		

5.2. Specific hazards arising from the chemical strength of the second strength of the seco	mical		
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. May form flammable/explosive vapor-air mixture. 		
5.3. Special protective equipment and precautions 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". 		

appropriate for surrounding fire.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipme	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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.			

6.2. Environmental precautions

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

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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. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or Hygiene measures 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. Keep away from ignition sources. Incompatible materials : Refer to Section 10 on Incompatible Materials. Storage temperature : -25 - -10 °C Use explosion proof freezer Storage area : Store in dry, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

exafluoroisopropyl methacrylate (3063-94-3)
additional information available
. 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/Personal protective equipment

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

Personal protective equipment symbol(s):



Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

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9.1. Information on basic physical and ch	emical 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	: 49 – 50 °C (@ 140 mm Hg)	
Flash point	: 14 °C	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: 37 mm Hg (@ 20 °C)	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 1,302 g/ml (@ 20 °C)	
Molecular mass	: 236,11 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	

Refractive index

: 1,3295 (@ 26.3 °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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SECTION 11: Toxicological info	ormation
11.1. Information on toxicological	effects
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic	 Not classified Not classified Not classified Causes skin irritation. Causes serious eye irritation. Not classified
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Hexafluoroisopropyl methacrylate (3063-94-3)		
c ,	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.	

12.3. Bioaccumulative potential

Hexafluoroisopropyl methacrylate (3063-94-3)		
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

12.5. Other adverse effects

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 information				
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 			
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

15.2. International regulations

CANADA

Hexafluoroisopropyl methacrylate (3063-94-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

Hexafluoroisopropyl methacrylate (3063-94-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Hexafluoroisopropyl methacrylate (3063-94-3)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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 ha	hazard : 3 - Materials that, or permanent injury.	under emergency conditions, can cause serious or
NFPA fire haza	zard : 3 - Liquids and sol	ids (including finely divided suspended solids) that can most all ambient temperature conditions.
NFPA reactivity	ity : 0 - Material that in conditions.	themselves are normally stable, even under fire
Hazard Rating	g	
Health	: 2 Moderate Hazard	d - Temporary or minor injury may occur
Flammability	ability : 3 Serious Hazard - Materials capable of ignition under almost all normal temperature con Includes flammable liquids with flash points below 73 F and boiling points above 100 F. a as liquids with flash points between 73 F and 100 F. (Classes IB IC)	
Physical		- Materials that are normally stable, even under fire conditions, and will NOT olymerize, decompose, condense, or self-react. Non-Explosives.

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