

Safety Data Sheet 2903314 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/05/2017 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 1,1,1,3,3,3-Hexafluoro-2-(4-vinylphenyl))propan-2-ol
CAS No	: 2386-82-5	,
Product code	: 2903-3-14	
Formula	: C11H8F6O	
Synonyms	: 2-(4-Ethenylphenyl)-1,1,1,3,3,3-hexaflue	oropropap-2-ol: 4-HEA-ST
Other means of identification	: MFCD04038310	
	ance or mixture and uses advised again	IST
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		
Emergency number	: (844) 523-4086 (3E Company - Accoun	t 10069)
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mi	xture	
Classification (GHS-US)Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritationSTOT SE 3H335 - May cause respiratory irritationFull text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	: GHS07	
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation	
Precautionary statements (GHS-US)	P302+P352 - If on skin: Wash with plen P304+P340 - If inhaled: Remove persor P305+P351+P338 - If in eyes: Rinse ca	Iling entilated area re clothing/eye protection/face protection ity of soap and water n to fresh air and keep comfortable for breathing autiously with water for several minutes. Remove contact
12/05/2017	lenses, if present and easy to do. Contil P312 - Call a POISON CENTER or doc P321 - Specific treatment (see supplem P332+P313 - If skin irritation occurs: Ge P337+P313 - If eye irritation persists: G P362+P364 - Take off contaminated clc P403+P233 - Store in a well-ventilated EN (English US)	tor/physician if you feel unwell nental first aid instructions on this label) et medical advice/attention tet medical advice/attention othing and wash it before reuse

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P405 - Store locked up

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

	PS01 - Dispose of contents/contained	r to an approved waste dis	sposar plant
2.3. Other hazards			
No additional information available			
.4. Unknown acute toxicity (GHS US)			
lot applicable			
SECTION 3: Composition/informatio	n on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1,1,1,3,3,3-Hexafluoro-2-(4-vinylphenyl)propan-2-ol (Main constituent)	(CAS No) 2386-82-5	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16		· · ·	
.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
1.1. Description of first aid measures			
ïrst-aid measures general	: In case of accident or if you feel unw where possible). Move the affected p	personnel away from the c	ontaminated area.
irst-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get medical advice/atten		g. If not breathing, give artificial
irst-aid measures after skin contact	: Wash with plenty of soap and water.		
irst-aid measures after eye contact	: Immediately flush eyes thoroughly w present and easy to do. Continue rine	sing. Get medical advice/a	attention.
irst-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth out with water. Get medical ac	, , ,	unconscious person. Rinse
.2. Most important symptoms and effect	ts, 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.		
4.3. Indication of any immediate medical	attention and special treatment need	ed	
Freat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxid appropriate for surrounding fire.	de. Dry powder. Water spr	ay. Use extinguishing media
5.2. Special hazards arising from the sul	ostance or mixture		
ire hazard	: Thermal decomposition generates: C	Carbon oxides. Hydrogen f	luoride.
Explosion hazard	: Risk of explosion if heated under cor containers.	nfinement. Use water spra	y or fog for cooling exposed
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 apparatus. For further information rel		
SECTION 6: Accidental release meas			
6.1. Personal precautions, protective eq			tion Do not broothe and func-
General measures	: Evacuate unnecessary personnel. En vapor or spray.	nsure adequate air ventila	ווטח. שט חסג breathe gas, tumes,
.1.1. For non-emergency personnel			
0 11	: Only qualified personnel equipped w	ith suitable protective equi	pment may intervene.
Emergency procedures	: Only qualified personnel equipped with	ith suitable protective equi	pment may intervene.
5.1.1. For non-emergency personnel Emergency procedures 5.1.2. For emergency responders Protective equipment	 Only qualified personnel equipped with Do not attempt to take action without refer to section 8: "Exposure controls 	suitable protective equipr	

Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental prec	autions
Avoid release to the environme	nt. Notify authorities if product enters sewers or public waters.
6.3. Methods and materi	al 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 s	ections
No additional information availa	ble
SECTION 7: Handling a	nd storage
7.1. Precautions for safe	
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. Keep contents under inert gas.
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 of	ontrols/personal protection
8.1. Control parameters	
No additional information availa	ble
8.2. Exposure controls	
Appropriate engineering control	s : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers

Appropriate engineering controls	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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical ar	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	: 74 - 75 °C (@ 30 mm Hg)
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

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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	: 1.379 g/ml (@ 25 °C)
Molecular mass	: 270.17 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

Chemical stability 10.2.

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

10.3. Possibility of hazardous reactions

May polymerize.

Conditions to avoid 10.4.

Keep away from heat, sparks and flame.

10.5. **Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition products 10.6.

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 Information on toxicological effects 11.1.

Acute toxicity	: 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
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTI	ON 12: Ecological information			
40.4	and the second sec			
12.1.	Toxicity			
No additi	onal information available			
12.2.	Persistence and degradability			
No additional information available				
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12.3.	Bioaccumulative potential		
No addit	ional information available		
12.4.	Mobility in soil		
No addit	ional information available		
12.5.	Other adverse effects		

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations

- : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. : 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

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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:

1,1,1,3,3,3-Hexafluoro-2-(4-vinylphenyl)propan-2-ol	CAS No 2386-82-5	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

1,1,1,3,3,3-Hexafluoro-2-(4-vinylphenyl)propan-2-ol (2386-82-5)
Listed on the Japanese ISHL (Industrial Safety and Health Law)

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

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Full text of H-phrases:	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 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	 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.
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.