

Galden HT70 (Average MW = 410) Safety Data Sheet 21082X2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/21/2015 Version: 1.0

SECTION 1: Identification 1.1. Identification			
Due du set ferme	. Cultateres		
Product form	: Substance		
Substance name	: Galden HT70 (Average MW = 410)		
	: 69991-67-9 · 2108-2-Y2		
Product code	: 2108-2-X2		
Formula	: Unspecified		
Synonyms	: Poly(1,1,2,3,3,3-hexafluoroprop-1-ene), oxidized; Poly(perfluoroprop-1-ene), oxidized		
Other means of identification	: MFCD00748122		
.2. Relevant identified uses of the su	ubstance or mixture and uses advised against		
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development		
.3. Details of the supplier of the safe	ty data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America Γ (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - <u>www.synquestlabs.com</u>			
.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irr STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16			
Eye Irrit. 2A H319 - Causes serious eye irr STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16			
Eye Irrit. 2A H319 - Causes serious eye irr			
Eye Irrit. 2A H319 - Causes serious eye irr STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements	irritation :		
Eye Irrit. 2A H319 - Causes serious eye irr STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation : ; GHS07		
Eye Irrit. 2A H319 - Causes serious eye irr STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation :		

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2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
Not applicable					
SECTION 3: Composition/informati	on on in	greatents			
3.1. Substance	.				
Substance type	: Polyn	ner			
Name		Product identifier	%	Classification (GHS-US)	
Galden HT70 (Average MW = 410) (Main constituent)		(CAS No) 69991-67-9	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		se of accident or if you feel unwell, seek possible). Move the affected personne			
First-aid measures after inhalation		ove person to fresh air and keep comfort ration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial	
First-aid measures after skin contact	: Wash	with plenty of soap and water. Get med	ical advice/atten	tion.	
First-aid measures after eye contact		diately flush eyes thoroughly with water int and easy to do. Continue rinsing. Get			if
First-aid measures after ingestion	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 effe	ects, 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 medic	,				
4.3. Indication of any immediate medic Treat symptomatically.	,				
Treat symptomatically.	,				
Treat symptomatically. SECTION 5: Firefighting measures	,				
Treat symptomatically.	al attentio		owder. Water sp	ray. Use extinguishing media	
Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media	al attentio	n and special treatment needed ol resistant foam. Carbon dioxide. Dry p priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media	
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6.2. Environmental precaution	ns		
Avoid release to the environment. No	otify authorities if product enters sewers or public waters.		
6.3. Methods and material for	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 section	ons		
No additional information available			
SECTION 7: Handling and s	torage		
7.1. Precautions for safe hand	dling		
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 stora	ge, including any incompatibilities		
-	: Comply with applicable regulations.		
Technical measures	. Compty with applicable regulations.		
Storage conditions	: Keep container closed when not in use.		

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.
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 and	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	: <-110 °C		
Freezing point	: No data available		
Boiling point	: 70 °C		
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	: 141 mm Hg (@ 25 °C)		
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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.68 g/ml (@ 25 °C)
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	
Refractive index	: 1.28 (@ 25 °C)

SECTION	10: Stability and reactivity			
10.1. R	eactivity			
No additiona	No additional information available			
10.2. C	hemical stability			
The product	The product is stable at normal handling and storage conditions.			
10.3. Po	ossibility of hazardous reactions			
No additiona	No additional information available			
10.4. C	onditions to avoid			
Extremely high temperatures.				
10.5. In	compatible materials			
Finely divided metals (Al, Mg, Zn).				
10.6. Ha	azardous 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			
Acute toxicity	: Not classified		
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Not classified Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified 		
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
SECTION 12: Ecological information			
12.1. Toxicity			

 12.1. Toxicity

 No additional information available

 12.2. Persistence and degradability

 No additional information available

 12.3. Bioaccumulative potential

 No additional information available

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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 Waste disposal recommendations Additional information	 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. 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

Galden HT70 (Average MW = 410) (69991-67-9)

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

Galden HT70 (Average MW = 410) (69991-67-9)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

National regulations

Galden HT70 (Average MW = 410) (69991-67-9)

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 Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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 and/or reproductive harm

SECTION 16: Other information

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Full tex	t 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 f	given. PA fire hazard : 0 - Materials that will not b		h prompt medical attention was urn. under fire exposure conditions,	
	II Rating			
Health	Health : 0 Minimal Hazard - No sig		gnificant risk to health	
Flamma	ability	: 0 Minimal Hazard - Mater	rials that will not burn	
Physica	Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, ar 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.