

_

Fluorinert FC-84

Safety Data Sheet 1100281 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/06/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Fluorinert FC-84
CAS No	: 86508-42-1
Product code	: 1100-2-81
Other means of identification	: MFCD00163646
1.2. Relevant identified uses of the substa	ance 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 da	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 - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	xture
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation	
Eye Irrit. 2A H319 - Causes serious eye irritatio	n
STOT SE 3 H335 - May cause respiratory irrita	tion
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
0 ()	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eve irritation
	H335 - May cause respiratory irritation
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
	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
	P312 - Call a POISON CENTER of doctor/physician in you reel driveli 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+P255 - Store in a weil-ventilated place. Reep container tightig closed P405 - Store locked up
	P501 - Dispose of contents/container to an approved waste disposal plant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

23 Other hazards No additional information available Unknown acute toxicity (GHS US) 2.4. Not applicable **SECTION 3: Composition/information on ingredients** Substance 3.1. Substance type : Mono-constituent Product identifier **Classification (GHS-US)** Name % Fluorinert FC-84 (CAS No) 86508-42-1 <= 100 Skin Irrit. 2, H315 (Main constituent) 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 Description of first aid measures** 4.1. 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. : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse First-aid measures after ingestion mouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section Symptoms/injuries 2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures 5.1. **Extinguishing media** Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire. 5.2. Special hazards arising from the substance or mixture Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Explosion hazard Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. Advice for firefighters 5.3. 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 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 sprav. 6.1.1. For non-emergency personnel : Only qualified personnel equipped with suitable protective equipment may intervene. Emergency procedures

Emergency procedures	: Gas/vapor heavier than air. N level.	lay accumulate in confined spaces, particularly at or belo	w ground
Protective equipment		without suitable protective equipment. For further information controls/personal protection".	ation
6.1.2. For emergency responders			

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

.2. Environmental precautions			
Avoid release to the environment. Notify authorities if product enters sewers or public waters.			
.3. Methods and material for con	tainment and cleaning up		
or containment : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.			
lethods 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. 		
ther information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
4. Reference to other sections			
o additional information available			
ECTION 7: Handling and stora	age		
1. Precautions for safe handling			
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.			
.2. Conditions for safe storage, i	Conditions for safe storage, including any incompatibilities		
echnical measures	: Comply with applicable regulations.		
torage conditions	: Keep container closed when not in use.		
compatible materials	: Refer to Section 10 on Incompatible Materials.		
torage area	: Store in dry, cool, well-ventilated area.		
ECTION & Expedito controlo	horopol prototion		
ECTION 8: Exposure controls			
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.

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	: -95 °C		
Freezing point	: No data available		
Boiling point	: 75 - 90 °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	: 79 mm Hg (@ 20 °C)		
04/06/2017	EN (English US)	SDS ID: 1100281	3/6

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.73 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

: 1.261 (@ 25 °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.

10.3. Possibility of hazardous reactions

No additional information available

10.4. **Conditions to avoid**

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Alkali metals. Finely divided metals (Al, Mg, Zn). Strong acids. Strong bases. Strong oxidizing 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 11.1. Information on toxicological effects · Not classified

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
12.1.	Toxicity
No addit	onal information available
12.2.	Persistence and degradability
No addit	onal information available
12.3.	Bioaccumulative potential
No addit	onal information available

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	tions		
Waste treatment methods Vaste treatment methods Vaste disposal recommendations Additional information		d incinerator equipped with an afterburner and a flue gas scru tainer in accordance with licensed collector's sorting instruction far as possible.	
SECTION 14: Transport informati	on		
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 informa	tion		
5.1. US Federal regulations			
All components of this product are listed, o Substances Control Act (TSCA) inventory of		ited States Environmental Protection Agency Toxic	
Fluorinert FC-84		lo 86508-42-1 100%	
This product or mixture does not contain a CFR §372.38(a) subject to the reporting re and 40 CFR Part 372.	toxic chemical or chemicals in ea quirements of section 313 of Title	ccess of the applicable de minimis concentration as specified a III of the Superfund Amendments and Reauthorization Act o	in 40 f 1986
5.2. 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 d and/or reproductive harm	oes not contain any substances	known to the state of California to cause cancer	
SECTION 16: Other information			
Full text of H-phrases:			
Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A	
Skin Irrit. 2		Skin corrosion/irritation Category 2	

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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
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	: 0 Minimal Hazard - Materials that will not burn
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.