

Safety Data Sheet 210774A according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/04/2019 Version: 1.0

SECTION 1: Identification			
1.1 Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 3-(2-Chloroethoxy)-1,1,2,2-tet	afluoropropane	
CAS No	: 64769-39-7		
Product code : 2107-7-4A			
Formula	: C5H7CIF4O		
Synonyms	: 2-Chloroethyl 2,2,3,3-tetrafluo	ropropyl ether	
Other means of identification	: MFCD11164793		
1.2. Relevant identified uses of the su	ubstance or mixture and uses advis	ed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develo	pment	
1.3. Details of the supplier of the safe	ety data 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.			
1.4. Emergency telephone number Emergency number	: (844) 523-4086 (3E Company	Account 10060)	
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)	•		
Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irr H335 - May cause respiratory		
Precautionary statements (GHS-US)	P302+P352 - If on skin: Wash P304+P340 - If inhaled: Remo P305+P351+P338 - If in eyes lenses, if present and easy to P312 - Call a POISON CENTI P321 - Specific treatment (see P332+P313 - If skin irritation of P337+P313 - If eye irritation p P362+P364 - Take off contarr	mist, spray, vapors after handling a well-ventilated area /protective clothing/eye protection/face protectio with plenty of soap and water ve person to fresh air and keep comfortable for Rinse cautiously with water for several minutes	breathing . Remove contac
12/04/2019	EN (English US)	SDS ID: 210774A	Page 1

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

		5 - Store locked up 1 - Dispose of contents/containe	r to an approved wast	e disposal plant
2.3. Other hazards				
Other hazards not contributing to the classification	: In us	se may form flammable/explosive	e vapor-air mixture.	
2.4. Unknown acute toxicity (GH	S US)			
Not applicable				
SECTION 3: Composition/info	mation on i	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
3-(2-Chloroethoxy)-1,1,2,2-tetrafluoropropan	e	(CAS No) 64769-39-7	<= 100	Skin Irrit. 2, H315
(Main constituent)				Eye Irrit. 2A, H319 STOT SE 3, H336 STOT SE 3, H335
Full text of H-phrases: see section 16			I	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measure	S			
4.1. Description of first aid meas	ures			
First-aid measures general	: In ca whe	ase of accident or if you feel unw re possible). Move the affected p	vell, seek medical advi personnel away from t	ce immediately (show the label he contaminated area.
First-aid measures after inhalation		nove person to fresh air and keep iration. Get medical advice/atter		thing. If not breathing, give artificial
First-aid measures after skin contact	: Was	h with plenty of soap and water.	Get medical advice/a	ttention.
First-aid measures after eye contact		ediately flush eyes thoroughly w ent and easy to do. Continue rin		5 minutes. Remove contact lenses, if ice/attention.
First-aid measures after ingestion		NOT induce vomiting. Never give th out with water. Get medical a		an unconscious person. Rinse
4.2. Most important symptoms a	nd effects, both	acute and delayed		
Symptoms/injuries		most important known symptom and/or in section 11.	s and effects are desc	cribed in the labelling (see section
Symptoms/injuries after inhalation	: May	cause drowsiness or dizziness.		
4.3. Indication of any immediate	medical attention	on and special treatment need	ed	
Treat symptomatically.				
SECTION 5: Firefighting meas	ures			
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxi opriate for surrounding fire.	de. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising from	the substance	or mixture		
Fire hazard		rmal decomposition generates: (Carbon oxides. Hydrog	gen chloride. Hydrogen fluoride.
Explosion hazard	: Risk			spray or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In ca	ase of fire: Evacuate area. Fight	fire remotely due to th	e risk of explosion.
Protection during firefighting		ar gas tight chemically protective aratus. For further information re		on with self contained breathing sure controls/personal protection".
SECTION 6: Accidental release				
		t and emergency procedures		
General measures		cuate unnecessary personnel. E or or spray.	nsure adequate air ve	ntilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personn			91 9 11 × 2	
Emergency procedures	: Only	qualified personnel equipped w	ith suitable protective	equipment may intervene.

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

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.		
6.2. Environmental precautions			
Avoid release to the environment. Notify author	orities if product enters sewers or public waters.		
6.3. Methods and material for contain	ment 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			
SECTION 7: Handling and storage			
7.1. 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.		
7.2. Conditions for safe storage, inclu	Iding any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area	: Store in dry, cool, well-ventilated area.		

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	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	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available

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

Flammability (solid, gas)	: No data available
Explosion limits	: No data available
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
Molecular mass	: 194.555 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

SECT	TON 10: Stability and reactivity
10.1.	Reactivity
No add	litional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	litional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
Under i	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

ler normal cor irdous decomposition products should not be produced. Hazardous decomposition products in case of ıy fire, see Section 5.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
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 drowsiness or dizziness. May cause respiratory irritation.		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.		

SECTIO	SECTION 12: Ecological information			
12.1.	Toxicity			
No additional information available				

Safety Data Sheet

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

12.2.	Persistence and degradability				
No addit	No additional information available				
12.3.	Bioaccumulative potential				
No addit	No additional information available				
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 : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubb			
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Additional information	: Recycle the material as far as possible.		
SECTION 14: Transport informatio	n		

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:

3-(2-Chloroethoxy)-1,1,2,2-tetrafluoropropane CAS No 64769-39-7 100%

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

No additional information available

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

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

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	
	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	
	H336	May cause drowsiness or dizziness	
NFPA	health hazard fire hazard reactivity	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	
	II Rating		
Health		: 2 Moderate Hazard - Temporary or minor injury may occur	
Flamm	ability	: 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)	
Physic	al	: 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.