

2-(Chloromethoxy)-1,1,1,3,3,3-hexafluoropropane Safety Data Sheet 2107784 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/04/2016 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 2-(Chloromethoxy)-1,1,1,3,3,3-hexafluoropropane
CAS No	: 26103-07-1
Product code	: 2107-7-84
Formula	: C4H3CIF6O
Other means of identification	: MFCD09952406
1.2. Relevant identified uses of the s	substance 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 saf	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ 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 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye iSTOT SE 3H336 - May cause drowsines	irritation ss or dizziness
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H336 - May cause drowsines STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	irritation ss or dizziness
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H336 - May cause drowsine: STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements	irritation ss or dizziness
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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
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant
i oo i Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

3.1. Substance Substance type : Mono-constituent Name Product identifier % Classification (GHS-US) 2(Choromethoxy)-1,1,1,3,3,3-hexafluoropropane (CAS No) 26103-07-1 ≤ 100 Flam. Lq. 3, H226 Shin fur, 2, H33 Shin fur, 2, H33 Stor SE 3, H336 Stor SE 3, H336 Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First ald measures 4.1. Description of first ald 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 controftable for breathing, give artificial respiration. Get medical advice/attention. First-aid measures after orgo contact : Immediately fush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue innsing. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vonting, Never give artyfing by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vonting, Never give artyfing by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.	SECTION 3: Composition/information	on ingredients		
Name Product identifier % Classification (GHS-US) 2/Choromethoxy)-1.1.1.3.3.3-hexafluoropropane (CAS No) 26103-07-1 Set 100 Film. Lia, 3, H226 Wain construent) (CAS No) 26103-07-1 Set 100 Film. Lia, 3, H226 Skin Intri, 2, H315 Eye Intr. 2A, H319 STOT SE 3, H336 STOT SE 3, H336 STOT SE 3, H336 STOT SE 3, H335 SUL text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures STOT SE 3, H336 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 inpestion : Ummediately (tush eyes thoroughy with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical advice/attention. First-aid measures after inpestion : Do NOT induce vomiting. Near give arything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Near give arything b	3.1. Substance			
2:(Chromethoxy)-1,1,1,3,3,3-hexefluoropropane (Main constituent) (CAS No) 26103-07-1 <= 100 Firm, Liq, 3, H226 Stron Fas, H336 STOT SE 3, H336 Full text of H-phrases: see section 16 3.2. Mixture Not applicable Stor Type Stor Type Stor Type Stor Type Stor Type 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, 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 ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. 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. Symptoms/injuries : The most important known symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11. Symptoms/injuries after inhalation : M	Substance type :	Mono-constituent		
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	Explosion hazard :			ay or fog for cooling exposed
Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	5.3. Advice for firefighters			
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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 measure	ures
6.1. Personal precautions, protective equi	ipment 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 authoritie	s if product enters sewers or public waters.
6.3. Methods and material for containment	t 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	
Ŭ	: Handle empty containers with care because residual vapors are flammable.
	: 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.
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	g 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 area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/perso	nal 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.

: Safety shoes. 29 CFR 1910.136: Foot Protection.

Other information

12/06/2016

EN (English US)

2-(Chloromethoxy)-1,1,1,3,3,3-hexafluoropropane Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations				
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			
pH	: No data available			
Melting point	: No data available			
Freezing point	: No data available			
Boiling point	: 78 °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	: No data available			
Relative density	: No data available			
Relative vapor density at 20 °C	: No data available			
Molecular mass	: 216.51 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				
Refractive index	: 1.3138 (@ 20 °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 sto	prage 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				
Strong acids. Strong oxidizing agents.				
10.6. Hazardous decomposition product	S			
Under normal conditions of storage and use, ha fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case of			
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	
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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.

SECT	ON 12: Ecological information			
12.1.	Toxicity			
No addi	ional information available			
12.2.	Persistence and degradability			
No addi	ional information available			
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No additional information available				
12.5.	Other adverse effects			

No additional information available

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 informati	on
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1993 Flammable liquids, n.o.s., 3, III
UN-No.(DOT)	: UN1993
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

: III - Minor Danger

- : 203
- : 242
- : G Identifies PSN requiring a technical name

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		flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Quantity Limitations Passenger aircraft/ra (49 CFR 173.27)	ul :	60 L
DOT Quantity Limitations Cargo aircraft only (4 CFR 175.75)	9 :	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	:	1993
Proper Shipping Name (IMDG)	:	FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	:	3 - Flammable liquids
Packing group (IMDG)	:	III - substances presenting low danger
Air transport		
UN-No. (IATA)	:	1993
Proper Shipping Name (IATA)	:	Flammable liquid, n.o.s.
Class (IATA)	:	3 - Flammable Liquids
Packing group (IATA)	:	III - Minor Danger
SECTION 15: Regulatory information	on	
15.1. US Federal regulations		
All components of this product are listed, or e Substances Control Act (TSCA) inventory exe		ded from listing, on the United States Environmental Protection Agency Toxic

Substances Control Act (TSCA) inventory except tor: 2-(Chloromethoxy)-1,1,1,3,3,3-hexafluoropropane CAS No 26103-07-1 100%

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

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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

Full text of H-phrases:		
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 3	Flammable liquids Category 3	
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	
H226	Flammable liquid and vapor	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
NFPA health hazard NFPA fire hazard NFPA reactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur. : 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	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) 	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NC react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	т

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.