

2,3-Dichloro-1,1,1-trifluoropropane

Safety Data Sheet 1100727 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/03/2015 Version: 1.0

1.1 Identification Product form Substance Substance name : 2,3-Dichlaro-1,1,1+rifluoropropane CAS No : 338-75.0 Product code : 1100-727 Formula : C3HSCI2F3 Other means of identification : MFCD00009090 Use of the substance/mixture : Laboratory chemicals Mandacture of substances : Scientific research and development 1.3 Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. PO. Box 303 P.O. Box 303 Scientific research and development 1.4 Cenergency number : (844) 523-4086 (dE Company - Account 10089) SECTION 2: Hazard(5) Identification : 2.1 Classification of the substance or mixture Classification (GHS-US) : (844) 523-4086 (dE Company - Account 10089) SECTION 2: Hazard(5) Identification : 2.1 Classification of the substance or mixture Classification (GHS-US) : (844) 523-4086 (dE Company - Account 10089) Sin Inti. 2 1315 - Causes scient intriation Store 1 Hazard Statements (GHS-US) Sin Inti. 2 1315 - Causes scient intriati		
bistance name £ 3-Do Choron-1, 1-trifluoropropane AB No : 338-75-0 troduct code : 100-7-27 formula : G3H302E73 ther means of identification : MFCD00069080 12. Relevant identified uses of the substance or mixture and uses advised against Laboratory chemicals Manufacture of substances Scientific research and development Scientific research and development 13. Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. . Yo Do x30 . Valebus, FL 32615 - United States of America . (136) 462-0783 F (36) 462-0787 . Section (6H5-050) . Section (6H5-050) . Section (6H5-051) . Section (6H5-051) . Section (6H5-051) . Section (6H5-051) . Signal word (6H5-051) .	.1. Identification	
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2. Relevant identified uses of the substance or inkture and uses advised against Jase of the substance/mixture Laboratory chemicals Manufacture of substances Scientific research and development 3. Details of the supplier of the solety data sheet involved taboratories, Inc. (26) d62-0789. F (366) d62-7097 to 85 xynuestisks.com - www.synuestisks.com development development development energency telephone number imagency number c (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification development c (843) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification development c (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification development c (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification development c (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification development development c (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard solub health and the environment by destroying azone in the upper atmosphere ulit ext of H-phrases: see section 16 Laboratements (GHS-US) development extor <l< td=""><td>ormula</td><td>: C3H3Cl2F3</td></l<>	ormula	: C3H3Cl2F3
Jae of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development .3. Details of the supplier of the safety data sheet Scientific research and development .0. Box 300 Machacture of substances (386) 462-0788 - F (386) 462-7097 Ind SymputeHasks com - www.yonupsetHabs.com .4. Emergency telephone number imargency number :ECTION 2: Hazard(s) identification .4. Classification of the substance or mixture classification (GHS-US) Kin Irrit. 2 H315 - Causes skin irritation Yell 124 - Harsarbitike health and the environment by destroying ozone in the upper atmosphere Viul text of H-phrases: see section 16 :2. Label elements SHS-US labeling lazard pictograms (GHS-US) : Warning Yell 124 - H319 - Causes skin irritation H319 - Causes skin irritation H320 - P321 - P321 - I Vas on it well-wellated area P24 - Yaped H31 - I Vas on it well-wellated area P24 - Yaped H32 - I on skin thoroughy after handing P324 - P321 - I on skin irritat	Other means of identification	: MFCD00069089
Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet lynQuest Laboratories, Inc. '0.5 Dox 309 Vo. Box 309 Watchus, FL 32615 - United States of America ('389) 442-0785 - F (389) 442-7087 If (389) 442-0785 - F (389) 442-7087 If (380) 442-0785 - F (389) 442-7087 If (380) 442-0785 - Way supplier (380) SECTION 2: Hazard(s) identification Classification (OHS-US) Shin Inti 2: H 1315 - Causes skin initiation 'yee Inti. 2A H319 - Causes serious eye irritation 'Drone 1 Drone 1 H420 - Harms public health and the environment by destroying ozone in the upper atmosphere 'uil text of H-phrases: see section 16 L2. Label elements H54-US labeling : Warning tazard pictograms (CHS-US) : Warning * Ha19 - Causes serious eye irritation 'H1310 - Causes serious eye irritation 'H1310 - Causes serious eye irritation 'H1310 - Causes serious eye irritation 'H132 - Eaves shis introtophy irritation 'H132 - Eaver shis introtophy irritation 'H230 - Harms public health and the environment by destroying ozone in the upper atmosphere 'P246 - Wash shis thorophy irritation 'H230 - Harms public health and the environmen	.2. Relevant identified uses of the	substance or mixture and uses advised against
SynCluest Laboratories, Inc. 20. Box 200 Nachas, FL 32815 - United States of America (286) 462-0788 + F (386) 462-7097 Infestynucustatas.com - www.syncuestlabs.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 mixture Classification (GHS-US) Skin Inft. 2 H315 - Causes serious eye irritation STOT SE3 H335 - May cause respiratory irritation Hazo Harms public health and the environment by destroying ozone in the upper atmosphere Full text of H-phrases: see section 16 2.2. Label elements SHS-US labeling tazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazo Harms public health and the environment by destroying ozone in the upper atmosphere P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wave protective gives/protection/face protection P304-P334 - Hinhalet: Remove preson to fresh air and keep confortable for breathing P304-P334 - Hinhalet: Remove preson to fresh air and keep confortable for breathing P314 - Specific treatment (Ges upplemented lifts aid instructions on this label) P337-P313 - If skin irritation persists: Get medical advice/attention P337-P313 - If skin irritation pressists: Get medical advice/attention P337-P313 - If skin irritation persists: Get medical advice/attention P337-P313 - If skin irritation pressists: Get medical advice/attention P337-P313 - If skin iritation pressists:	Jse of the substance/mixture	Manufacture of substances
20. Box 309 Machua, FL 32615 - United States of America (7.86) 482-0788 - F (386) 482-0797 Info@ synquestabs.com - www.synquestabs.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 mixture Classification (GHS-US) Skin Inti 2. H 315 - Causes skin iritation Eye Inti 2. H 315 - Causes service respiratory iritation 2.201 1 H420 - Harms public health and the environment by destroying ozone in the upper atmosphere Full text of H-phrases: see section 16 : 2.2. Label elements SHS-US tabeling : tazard statements (GHS-US) : H319 - Causes skin irritation H319 - Causes skin irritation H319 - Way cause respiratory irritation H339 - May cause respiratory irritation H319 - Causes service yee irritation H319 - Causes service yee irritation H319 - Causes service yee irritation H319 - Causes service yee irritation H319 - Causes service yee irritation H319 - Causes service yee irritation H320 - Harms public health and the envicronment by destroying ozone i	.3. Details of the supplier of the sa	fety data sheet
Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(6) identification 21. Classification of the substance or mixture Classification (GHS-US) Skin Int 2 H315 - Causes serious eye irritation STOT 5E 3 H335 - May cause respiratory irritation STOT 5E 3 H326 - Harms public health and the environment by destroying ozone in the upper atmosphere Full text of H-phrases: see section 16 22. Label elements SHS-US labeling tazard pictograms (GHS-US) : H315 - Causes skin irritation H326 - Marms public health and the environment by destroying ozone in the upper atmosphere Full ext of H-phrases: see section 16 23. Label elements SHS-US labeling tazard statements (GHS-US) : H315 - Causes skin irritation H326 - May cause respiratory irritation H326 - Harms public health and the environment by destroying ozone in the upper atmosphere Precautionary statements (GHS-US) : P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective dolows/privated response to for breathing P304-P336 - I fin spices: Rimese cautionsly with water for several minutes. Remove com lenses, it present and easy to do. Continue rinsing P304-P334 - I fin spices: There acid advice/attention P332+P331 - I ley of irritation necurs: Get medical advice/attention P332+P331 - I ley of irritation paylemental first adi instructions on this label) P332+P331 - I ley offic transmit (dee maylemental first adi instructions on this label) P332+P331 - I ley offic transmit (dee proting adw water instructions on this label) P332+P331 - I ley offic transmit ade place. Ke	2.O. Box 309 Alachua, FL 32615 - United States of Ameri Γ (386) 462-0788 - F (386) 462-7097	
SECTION 2: Hazard(s) identification SECTION 2: Hazard(s) identification Classification of the substance or mixture Classification (GHS-US) Skin Init. 2 H315 - Causes skin irritation Syn Init. 2 H315 - Causes serious eye irritation STOT SE 3 Hay cause respiratory irritation Dzone 1 H420 - Harms public health and the environment by destroying ozone in the upper atmosphere Full text of H-phrases: see section 16 Example E2.2 Label elements GHS-US labeling - Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : Warning Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors P244 - Wash skin throoughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Waar protective gloves/protective cloinflag/eg protection/face protection P304-P332 - I fin skin: Wash with plenty of soap and water P304-P340 - II inhaled: Remove person to fresh air and keep comfortable for breathing P304-P331 - I is eye irritation ensing P304-P342 - I in skin: irritation coccurs: Get medical advice/attention P324-P331 - J is eye offloc treatment (see supplemental first aid instructions on this la	1.4. Emergency telephone number	
2.1. Classification of the substance or mixture Classification (GHS-US) Skin Init. 2 H315 - Causes skin irritation STOT 5E 3 H335 - May cause respiratory irritation Dzone 1 H420 - Harms public health and the environment by destroying ozone in the upper atmosphere Ull ext of H-phrases: see section 16 2.2. Label elements SHS-US labeling Hazard pictograms (GHS-US) : Hazard statements (GHS-US) : Variant of the substance or mixture 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 P302+P352 - If one skin: Wash with plenty of scap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P314 - Sprecific treatment (see supplemental first aid instructions on this label)	Emergency number	: (844) 523-4086 (3E Company - Account 10069)
2.1. Classification of the substance or mixture Classification (GHS-US) Skin Inti. 2 H315 - Causes skin irritation Syper Int. 2A H316 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Dzone 1 H420 - Harms public health and the environment by destroying ozone in the upper atmosphere Uil text of H-phrases: see section 16 2.2. Label elements SHS-US labeling tazard pictograms (GHS-US) : stage of the substance or mixture Signal word (GHS-US) : tazard statements (GHS-US) : tazard statements (GHS-US) : tazard statements (GHS-US) : tazard statements (GHS-US) : Precautionary statements (GHS-US) : tazard statements (GHS-US) :	SECTION 2: Hazard(c) identificat	ion
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	Ozone 1 H420 - Harms public health Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	and the environment by destroying ozone in the upper atmosphere : : : : : : : : : : : : :

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P501 - Dispose of contents/container to an approved waste disposal plant P502 - Refer to manufacturer/supplier for information on recovery/recycling

	1 002			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	n on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
2,3-Dichloro-1,1,1-trifluoropropane (Main constituent)		(CAS No) 338-75-0	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Ozone 1, H420
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures				
First-aid measures general	where	e of accident or if you feel unwell, seek a possible). Move the affected personnel	away from the	contaminated area.
First-aid measures after inhalation	respir	ove person to fresh air and keep comforta ation. Get medical advice/attention.		
First-aid measures after skin contact		with plenty of soap and water. Get med		
First-aid measures after eye contact	prese	diately flush eyes thoroughly with water int and easy to do. Continue rinsing. Get	medical advice/	attention.
First-aid measures after ingestion		OT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
I.2. Most important symptoms and effec	ts, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries after inhalation	: May o	ause drowsiness or dizziness.		
I.3. Indication of any immediate medical	attentio	n and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the sub	ostance o	or mixture		
Fire hazard		nal decomposition generates: Carbon ox	, ,	, ,
Explosion hazard	: Risk o conta	of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
.3. Advice for firefighters				
Firefighting instructions	: In cas	e of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.
Protection during firefighting		gas tight chemically protective clothing i atus. For further information refer to sec		
SECTION 6: Accidental release meas				
6.1. Personal precautions, protective equ				
General measures		uate unnecessary personnel. Ensure ade or spray.	equate air ventila	ation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	lipment may intervene.

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Emergency procedures refer to section 8: "Exposure controls/p Emergency procedures : Gas/vapor heavier than air. May accurrelevel. 6.2. Environmental precautions Avoid release to the environment. Notify authorities if product enters sewers or public waters 6.3. Methods and material for containment and cleaning up For containment : Stop leak if safe to do so. Dike for record Methods for cleaning up : Take up large spills with pump or vacuus explosion-proof equipment. Take up sin spills into appropriate container for disp	nulate in confined spaces, particularly at or below ground rs. every or absorb with appropriate material. um and finish with dry chemical absorbent. Use nall spills with dry chemical absorbent. Sweep or shovel posal. Ventilate area.
6.2. Environmental precautions Avoid release to the environment. Notify authorities if product enters sewers or public waters 6.3. Methods and material for containment and cleaning up For containment : Stop leak if safe to do so. Dike for reco Methods for cleaning up : Take up large spills with pump or vacue explosion-proof equipment. Take up sn spills into appropriate container for disp	rs. every or absorb with appropriate material. um and finish with dry chemical absorbent. Use nall spills with dry chemical absorbent. Sweep or shovel posal. Ventilate area.
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explosion-proof equipment. Take up sn spills into appropriate container for disp	nall spills with dry chemical absorbent. Sweep or shovel posal. Ventilate area.
Other information	
Other information : For disposal of solid materials or residu	ues 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	
	ns have been read and understood. Ensure good preathe fumes, mist, spray, vapors. Wear personal th skin and eyes.
	trial hygiene and safety procedures. Do not eat, drink or s 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	ł.
Incompatible materials : Refer to Section 10 on Incompatible Ma	aterials.
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	: 76 - 77 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available

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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
Specific gravity / density	:	1.43 g/ml (@ 20 °C)
Molecular mass	:	166.96 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		

9.2. Other information

Refractive index

: 1.367 (@ 20 °C)

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No addit	tional information available
10.2.	Chemical stability
The proc	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addit	tional information available
10.4.	Conditions to avoid
Keep av	vay from heat, sparks and flame.
10.5.	Incompatible materials
Alkali m	etals. Finely divided metals (Al, Mg, Zn). Strong bases. Strong oxidizing agents.
10.6.	Hazardous 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	: 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
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.

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

Other information

SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.

: Class II ozone-depleting substance.

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:

2,3-Dichloro-1,1,1-trifluoropropane	CAS No 338-75-0	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

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SECTION 16: Other information

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Ozone 1	Hazardous to the ozone layer Category 1
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
H420	Harms public health and the environment by destroying ozone in the upper atmosphere
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	: 1 Slight Hazard - Irritation or minor reversible injury possible
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)

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.