

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 4630701 Issue date: 5/25/2022 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form Substance name CAS-No. Product code Formula Other means of identification	: Substance : 3-Chloro-4-(1,1,2,3 : 1100832-66-3 : 4630-7-01 : C9H6CIF6NO : MFCD18641846	,3,3-hexafluoi	ropropoxy)aniline
1.2. Recommended use and restrictions on	use		
Use of the substance/mixture	: Laboratory chemica Manufacture of sub Scientific research	stances	nent
1.3. Supplier			
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 mixt	ure		
GHS US classification			
Acute toxicity (oral) Category 4 Acute toxicity (dermal) Category 4 Acute toxicity (inhalation) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Specific target organ toxicity – Single exposure, Cat Respiratory tract irritation Full text of H statements : see section 16	H3) H3 H3: H3 H3 H3 H3	12 H 32 H 15 () 18 ()	Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye damage May cause respiratory irritation
2.2. GHS Label elements, including precaut	tionary statements		
GHS US labeling Hazard pictograms (GHS US)			

- Signal word (GHS US) Hazard statements (GHS US)
- : Danger
- : H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H335 May cause respiratory irritation

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P26 P27 P27 P28 P30 P30 P30 P30 P30 P30 P31 P32 P32 P33 P33 P33 P33 P34 P40 P40	<ol> <li>Avoid breathing fumes, mist, spray, vapors.</li> <li>Wash skin thoroughly after handling</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>HP312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell</li> <li>2+P352 - If on skin: Wash with plenty of soap and water</li> <li>4+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>5+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove act lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor/ physician</li> <li>Specific treatment (see supplemental first aid instructions on this label)</li> <li>Specific treatment (see supplemental first aid instruction on this label)</li> <li>Rinse mouth.</li> <li>P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P344 - Take off contaminated clothing and wash it before reuse.</li> <li>P373 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>Store locked up.</li> <li>Dispose of contents/container to an approved waste disposal plant</li> </ol>
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# 2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
3-Chloro-4-(1,1,2,3,3,3-hexafluoropropoxy)aniline (Main constituent)	CAS-No.: 1100832- 66-3		Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid 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 comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.

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First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.</li> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.</li> </ul>
4.2. Most important symptoms and effects (	acute and delayed)
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
Symptoms/effects after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	media		
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.		
5.2. Specific hazards arising from the chemical			
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides.		
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.		
5.3. Special protective equipment and preca	utions for fire-fighters		
0 0	<ul> <li>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>		

SECTION 6: Accidental release measure	es
6.1. Personal precautions, protective equipr	nent 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.

# 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 recovery or absorb with appropriate material.

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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 Hygiene measures	<ul> <li>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.</li> <li>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.</li> </ul>		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures Storage conditions Incompatible materials Storage area	<ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use.</li> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul>		

### **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters 3-Chloro-4-(1,1,2,3,3,3-hexafluoropropoxy)aniline (1100832-66-3) No additional information available 8.2. Appropriate engineering 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.

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8.3. Individual protection measures/Personal protective equipment
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
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Molecular mass	: 293.593 g/mol
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

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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		
Strong acids. 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 (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Harmful if inhaled.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
Symptoms/effects after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

# **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		

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#### **12.5. Other adverse effects**

No additional information available

SECTION 13: Disposal considerations			
13.1. Disposal methods			
Waste treatment methods Product/Packaging disposal recommendations Additional information	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Recycle the material as far as possible.</li> </ul>		
SECTION 14: Transport information			
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping name			
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
14.3. Transport hazard class(es)			
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable		
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable		
IMDG Transport hazard class(es) (IMDG)	: Not applicable		
IATA Transport hazard class(es) (IATA)	: Not applicable		
14.4. Packing group			
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
14.5. Environmental hazards			
Other information	: No supplementary information available.		
14.6. Special precautions for user			
DOT No data available			
TDG			

No data available

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#### IMDG

No data available

#### ΙΑΤΑ

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

100%

3-Chloro-4-(1,1,2,3,3,3-hexafluoropropoxy)aniline

CAS-No. 1100832-66-3

#### 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

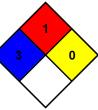
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

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Full text of H-phrases		
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	

NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or	
	permanent injury.	
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire	3
	conditions.	



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Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is
	given
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)
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.

Safety Data Sheet (SDS), USA

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.