

Safety Data Sheet 36376P1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/28/2016 Version: 1.0

	n
1.1. Identification	
Product form	: Substance
Substance name	: 5-Chloro-2,4,6-trifluoroisophthalonitrile
CAS No	: 1897-50-3
Product code	: 3637-6-P1
Formula	: C8CIF3N2
Synonyms	: 5-Chloro-2,4,6-trifluorobenzene-1,3-dicarbonitrile
Other means of identification	: MFCD06658269
	ses of the 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	r of the safety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United State T (386) 462-0788 - F (386) 462-7 info@synquestlabs.com - www.sy	7097 ynquestlabs.com
1.4. Emergency telephone	e number
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) ide	entification
2.1. Classification of the s	substance or mixture
Classification (GHS-US)	
	2 - Harmful if inhaled 5 - Causes skin irritation
Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335	 5 - Causes skin irritation 5 - Causes serious eye irritation 5 - May cause respiratory irritation
Skin Irrit. 2H315Eye Irrit. 2AH319STOT SE 3H335Full text of H-phrases: see section	 5 - Causes skin irritation 5 - Causes serious eye irritation 5 - May cause respiratory irritation
Skin Irrit. 2H315Eye Irrit. 2AH319STOT SE 3H335Full text of H-phrases: see section	 5 - Causes skin irritation 5 - Causes serious eye irritation 5 - May cause respiratory irritation
Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H-phrases: see section 2.2. Label elements GHS-US labeling	 5 - Causes skin irritation 5 - Causes serious eye irritation 5 - May cause respiratory irritation
Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H-phrases: see section 2.2. Label elements GHS-US labeling	 5 - Causes skin irritation 5 - Causes serious eye irritation 5 - May cause respiratory irritation
Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H-phrases: see section 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 Gauses skin irritation Causes serious eye irritation May cause respiratory irritation an 16
Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H-phrases: see section 2.2. Label elements GHS-US labeling	 Gauses skin irritation Causes serious eye irritation May cause respiratory irritation If If<!--</td-->

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	P337+P313 - If ey P362+P364 - Take P403+P233 - Stor P405 - Store locke	in irritation occurs: Get r e irritation persists: Get e off contaminated clothi e in a well-ventilated pla	medical advice/at ing and wash it be ice. Keep containe	tention efore reuse er tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)			
Not applicable				
SECTION 3: Composition/informa	tion on ingredients			
8.1. Substance				
Substance type	: Mono-constituent			
Name	Product id	lentifier	%	Classification (GHS-US)
5-Chloro-2,4,6-trifluoroisophthalonitrile (Main constituent)	(CAS No) 189	17-50-3 1	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
B.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general		t or if you feel unwell, se Nove the affected persor		e immediately (show the label e contaminated area.
irst-aid measures after inhalation		o fresh air and keep com mediate medical advice		ning. If not breathing, give artificial
First-aid measures after skin contact		of soap and water. Get i		
irst-aid measures after eye contact	present and easy	to do. Continue rinsing.	Get immediate me	
First-aid measures after ingestion		omiting. Never give anytl ter. Get immediate med		an unconscious person. Rinse on.
.2. Most important symptoms and e	fects, both acute and de	elayed		
Symptoms/injuries	: The most importar 2.2) and/or in sect		effects are descri	ibed in the labelling (see section
4.3. Indication of any immediate med	ical attention and specia	al treatment needed		
reat symptomatically.				
SECTION 5: Firefighting measures	5			
5.1. Extinguishing media	Aleshal assistent of			
Suitable extinguishing media	: Alcohol resistant for sur		ry powaer. Water	spray. Use extinguishing media
5.2. Special hazards arising from the				
Fire hazard	: Thermal decompo Nitrogen oxides.	sition generates: Carbor	n oxides. Hydroge	en chloride. Hydrogen fluoride.
.3. Advice for firefighters				
Firefighting instructions	: In case of fire: Eva			
Protection during firefighting				with self contained breathing ure controls/personal protection".
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective	equipment and emerge	ncy procedures		
	_	sary personnel. Ensure		

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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".
6.2. Environmental precautions	
Avoid release to the environment. Notify a	uthorities if product enters sewers or public waters.
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
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 stora	ge
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 dust, mist, spray. 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, in	cluding 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 ar	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 103 - 107 °C
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

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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	: 216.55 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

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

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

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

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

SECTIO	ON 12: Ecological information			
12.1.	Toxicity			
No additi	onal information available			
12.2.	Persistence and degradability			
No additi	onal information available			
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12.3.	Bioaccumulative potential			
No addit	tional information available			
12.4.	Mehility in seil			
12.4.	Mobility in soil			
	tional information available			
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SECTION 13: Disposal considerations 13.1. Waste treatment methods

15.1. Waste treatment method

Waste treatment methods Waste disposal recommendations : 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.

Additional information : Recycle the material as far as possible.

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:

5-Chloro-2,4,6-trifluoroisophthalonitrile CAS No 1897-50-3 100%

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

5-Chloro-2,4,6-trifluoroisophthalonitrile (1897-50-3) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law)

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

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of H-phrases:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
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
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

: 3 - Short exposure could cause serious temporary or NFPA health hazard residual injury even though prompt medical attention was given. NFPA fire hazard : 0 - Materials that will not burn. 0 NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. HMIS III Rating Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given 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

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.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.