

Safety Data Sheet 3630743 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/17/2018 Version: 1.0

.1. Identification roduct form ubstance name AS No roduct code			
ubstance name AS No			
AS No	: Substance		
	: 4-Chloro-3-fluoroaniline		
roduct code	: 367-22-6		
	: 3630-7-43		
ormula	: C6H5CIFN		
ynonyms	: Benzenamine, 4-chloro-3-fluoro-		
ther means of identification	: MFCD01090987		
.2. Relevant identified uses of the s	substance or mixture and uses advised against		
se of the substance/mixture	: Laboratory chemicals		
	Manufacture of substances Scientific research and development		
.3. Details of the supplier of the saf	ety data sheet		
ynQuest Laboratories, Inc.			
.O. Box 309			
lachua, FL 32615 - United States of Americ	ca		
(386) 462-0788 - F (386) 462-7097	s.com		
.4. Emergency telephone number			
mergency number	: (844) 523-4086 (3E Company - Account 10069)		
ECTION 2: Hazard(s) identificati	ion		
.1. Classification of the substance of	or mixture		
lassification (GHS-US)			
	skin irritation serious eye irritation use respiratory irritation		
ull text of H-phrases: see section 16			
.2. Label elements			
HS-US labeling			
azard pictograms (GHS-US)			
	GHS06 GHS07		
ignal word (GHS-US)	: Danger		
azard statements (GHS-US)	<ul> <li>H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>		
	<ul> <li>P261 - Avoid breathing dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> </ul>		

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2.2 Other bereads	<ul> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P330 - Rinse mouth</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P361 - Take off immediately all contaminated clothing</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>			
2.3. Other hazards No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	Product identifier	%	Classification (GHS-US)	
4-Chloro-3-fluoroaniline (Main constituent)	(CAS No) 367-22-6	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	
Full text of H-phrases: see section 16				
3.2. Mixture				
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 unw	all sook modical advice	a immediately (show the label	
Thist-aid measures general	where possible). Move the affected p			
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.			
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Immediately flush eyes thoroughly with water for at least 15 minutes. Get immediate medical advice/attention.			
First-aid measures after ingestion	: Due to its physical form, exposure to this chemical is not likely. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			
4.2. Most important symptoms and effe	ortant symptoms and effects, both acute and delayed			
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.			
nptoms/injuries after inhalation : May cause drowsiness or dizziness.				
	al attention and special treatment need	ed		
No additional information available				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxid appropriate for surrounding fire.	te. Dry powder. Water	spray. Use extinguishing media	
5.2. Special hazards arising from the su				
Fire hazard	: Thermal decomposition generates: C Nitrogen oxides.			
Explosion hazard	: When mixed with air and exposed to explode if confined.	: When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.		
5.3. Advice for firefighters				
Firefighting instructions	: In case of fire: Evacuate area. Fight f	ire remotely due to the	risk of explosion.	

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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 me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
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 auth	prities 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.
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 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 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, inclu	ding any incompatibilities
Fechnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	
No additional information available	
3.2. 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.
land 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
Other information	Protection. : Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 0: Physical and abamia	·
SECTION 9: Physical and chemica 9.1. Information on basic physical an	
Physical state	: Solid
Color	: No data available
Ddor	
Odor Odor threshold	: No data available : No data available

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: No data available

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Melting point	: 61 (≥ 61) °C
Freezing point	: No data available
Boiling point	: 226 °C
Flash point	: 62 °C
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	: 145.562 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				

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: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

4-Chloro-3-fluoroaniline (367-22-6)				
ATE US (oral)	100.000 mg/kg body weight	100.000 mg/kg body weight		
ATE US (dermal)	300.000 mg/kg body weight	300.000 mg/kg body weight		
ATE US (gases)	700.000 ppmV/4h	700.000 ppmV/4h		
ATE US (vapors)	3.000 mg/l/4h	3.000 mg/l/4h		
ATE US (dust, mist)	0.500 mg/l/4h	0.500 mg/l/4h		
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				
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Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : 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.

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				

No additional information available

<b>SECTION 13: Disposal consider</b>	ations	
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.	
SECTION 14: Transport informa	tion	
Department of Transportation (DOT)		

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

Packing group (DOT)

DOT Symbols

: UN2811 Toxic solids, organic, n.o.s., 6.1, III

- : UN2811
- : Toxic solids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.</li> <li>T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2)</li> <li>TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.</li> </ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg
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)	: 2811
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2811
Proper Shipping Name (IATA)	: Toxic solid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger
<b>SECTION 15: Regulatory information</b>	
15.1. US Federal regulations	
All components of this product are listed, or ave	luded from listing, on the United States Environmental Protection Agency Toxic

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:

4-Chloro-3-fluoroaniline CAS No 367-22-6 100%	Substances Control Act (TSCA) Inventory exception.		
	4-Chloro-3-fluoroaniline	CAS No 367-22-6	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

4-Chloro-3-fluoroaniline (367-22-6) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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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:

	Acute Tox. 3 (Dermal)		Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation) Acute Tox. 3 (Oral)			Acute toxicity (inhalation) Category 3
			Acute toxicity (oral) Category 3
	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
	H301		Toxic if swallowed
	H311		Toxic in contact with skin
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H331		Toxic if inhaled
	H335		May cause respiratory irritation
NFPA fire hazard : 2 - Must be moderately		residual injury even the given.	uld cause serious temporary or bugh prompt medical attention was y heated or exposed to relatively high hition can occur.
NFPA reactivity : 0 - Normally stable, even and are not reactive with			en under fire exposure conditions, ith water.
HMIS I	II Rating		
Health : 3 Serious Hazard - Major injury likely unle given		Najor injury likely unless prompt action is taken and medical treatment is	
Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will o solids and semi solids having a flash point above 200 F. (Class IIIB)			
Physical : 0 Minimal Hazard - Materials that are normally stable, even under react with water, polymerize, decompose, condense, or self-react.		laterials that are normally stable, even under fire conditions, and will NOT merize, 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 guarance 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.