

Safety Data Sheet 4656723 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/12/2018 Version: 1.0

1.1. Identification		
Product form	: Substance	
Substance name	: 2-Chloro-6-fluoro-3-methoxyaniline	
CAS No	: 1017777-58-0	
Product code	: 4656-7-23	
Formula	: C7H7CIFNO	
Synonyms	: 2-Chloro-6-fluoro-3-methoxyaniline	
Other means of identification	: MFCD09832265	
.2. Relevant identified uses of the s	substance or mixture and uses advised against	
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the safe	ety 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		
I.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identification	on	
2.1. Classification of the substance of		
Classification (GHS-US)		
Acute Tox. 4 (Inhalation) H332 - Harmful i		
Skin Irrit. 2H315 - Causes sEye Irrit. 2AH319 - Causes s		
Skin Irrit. 2H315 - Causes sEye Irrit. 2AH319 - Causes sSTOT SE 3H335 - May cause	skin irritation serious eye irritation	
Skin Irrit. 2H315 - Causes sEye Irrit. 2AH319 - Causes sSTOT SE 3H335 - May causFull text of H-phrases: see section 16	skin irritation serious eye irritation	
Skin Irrit. 2H315 - Causes sEye Irrit. 2AH319 - Causes sSTOT SE 3H335 - May causFull text of H-phrases: see section 16	skin irritation serious eye irritation	
Skin Irrit. 2 H315 - Causes s Eye Irrit. 2A H319 - Causes s STOT SE 3 H335 - May cause Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	skin irritation serious eye irritation ise respiratory irritation	
Skin Irrit. 2 H315 - Causes s Eye Irrit. 2A H319 - Causes s STOT SE 3 H335 - May causes Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	skin irritation serious eye irritation ise respiratory irritation : : : : : : : : : : : : : : : : : :	
Skin Irrit. 2H315 - Causes sEye Irrit. 2AH319 - Causes sSTOT SE 3H335 - May causeFull text of H-phrases: see section 162.2.Label elements	skin irritation serious eye irritation ise respiratory irritation	
Skin Irrit. 2 H315 - Causes s Eye Irrit. 2A H319 - Causes s STOT SE 3 H335 - May cause Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 skin irritation serious eye irritation ise respiratory irritation : view of the series of the se	pntact

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	 P321 - Specific treatment (see supple P330 - Rinse mouth P332+P313 - If skin irritation occurs: P337+P313 - If eye irritation persists: P362+P364 - Take off contaminated P403+P233 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/container 	Get medical advice/a Get medical advice/a clothing and wash it b d place. Keep contain	ttention attention before reuse her tightly closed
2.3. Other hazards			
No additional information available	2)		
2.4. Unknown acute toxicity (GHS U	5)		
Not applicable			
SECTION 3: Composition/informa	ation on ingredients		
3.1. Substance	: Mono-constituent		
Substance type			
Name	Product identifier	%	Classification (GHS-US)
2-Chloro-6-fluoro-3-methoxyaniline (Main constituent)	(CAS No) 1017777-58-0	<= 100	Acute Tox. 3 (Oral), H301 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			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
1.1. Description of first aid measures			
First-aid measures general	: In case of accident or if you feel unwere where possible). Move the affected p	ersonnel away from t	he contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get immediate medical a	dvice/attention.	
First-aid measures after skin contact	: Wash with plenty of soap and water.		
First-aid measures after eye contact		: 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.	
First-aid measures after ingestion		 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 e	effects, both acute and delayed		
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	s and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate med Treat symptomatically.	dical attention and special treatment neede	ed	
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SECTION 5: Firefighting measure	≥		
5.1. Extinguishing media Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxic appropriate for surrounding fire.	de. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising from the	e substance or mixture		
Fire hazard	: Thermal decomposition generates: C Nitrogen oxides.	arbon oxides. Hydrog	en chloride. Hydrogen fluoride.
5.3. Advice for firefighters			
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. Wear gas tight chemically protective apparatus. For further information ref 		
SECTION 6: Accidental release m	neasures		
6.1. Personal precautions, protective	e equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Er breathe gas, fumes, vapor or spray.	nsure adequate air ve	ntilation. Do not breathe dust. Do not

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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 au	thorities if product enters sewers or public waters.
6.3. Methods and material for conta	inment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Minimize generation of dust. 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	ae
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, fumes, mist, spray, vapors. 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, inc	sluding 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 temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, well-ventilated area. Light sensitive. Inert gas.

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	: Solid		
Appearance	: Low melting solid.		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
pН	: No data available		
Melting point	: 37 - 40 °C		
Freezing point	: No data available		
Boiling point	: No data available		
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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	: 175.588 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 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

Information on toxicological effects 11.1.

Acute toxicity

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

2-Chloro-6-fluoro-3-methoxyaniline (1017777-58-0)		
ATE US (oral)	100.000 mg/kg body weight	
ATE US (dermal)	1100.000 mg/kg body weight	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	11.000 mg/l/4h	
ATE US (dust, mist)	1.500 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	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available
12.5.	Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
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 information

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)
- Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) 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)	 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). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal
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
SECTION 15: Regulatory information	
15.1. US Federal regulations	
	luded from listing on the United States Environmental Protection Agency Toxic
All components of this product are listed, or exc	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

2-Chloro-6-fluoro-3-methoxyaniline CAS No 1017777-58-0 100%	Substances Control Act (ISCA) Inventory except for:		
		CAS No 1017777-58-0	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

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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

	t of H-phrases: Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	
	Eye Irrit. 2A	Serious eve damage/eve 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	
	H312	Harmful in contact with skin	
	H315	Causes skin irritation	
	H319	Causes serious eye irritation	
	H332	Harmful if inhaled	
	H335	May cause respiratory irritation	
	ire hazard reactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 1 - Must be preheated before ignition can occur. : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	
	I Rating	\checkmark	
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flamm	ability	: 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)	
Physica	al	: 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.	

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.