

Safety Data Sheet 4655723 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/02/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2-Chloro-3-fluoro-6-nitroaniline		
CAS No	: 948014-34-4		
Product code	: 4655-7-23		
Formula	: C6H4CIFN2O2		
Other means of identification	: MFCD09763600		
1.2. Relevant identified uses of the su	ubstance 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 of the safe	ty data sheet		
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. 1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance o			
Classification (GHS-US)			
	contact with skin haled		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	CHS06 CHS07		
Signal word (GHS-US)	: Danger		
Hazard 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>		
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - If swallowed: Immediately call a poison center/doctor/ P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P311 - Call a POISON CENTER or doctor/physician P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label)</li> </ul>		
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	P337+P313 - If P361 - Take off P362+P364 - Ta P363 - Wash co P403+P233 - St P405 - Store loo	skin irritation occurs: Get eye irritation persists: Get immediately all contamina ake off contaminated cloth ntaminated clothing befor ore in a well-ventilated pla	medical advice/atte ated clothing ing and wash it befo e reuse ace. Keep container	ntion pre reuse tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS	5 US)			
Not applicable				
SECTION 3: Composition/infor	mation on ingredien	ts		
3.1. Substance	<b>M</b> <i>in</i>			
Substance type	: Mono-constitue	nt		
Name		identifier	%	Classification (GHS-US)
2-Chloro-3-fluoro-6-nitroaniline (Main constituent)	(CAS No) S	48014-34-4	<= 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				
I.1. Description of first aid measured				
First-aid measures general	where possible)	. Move the affected person	nnel away from the	
First-aid measures after inhalation	respiration. Get	immediate medical advice	e/attention.	ng. If not breathing, give artificial
First-aid measures after skin contact First-aid measures after eye contact	: Immediately flus	y of soap and water. Get i sh eyes thoroughly with wa sy to do. Continue rinsing.	ater for at least 15 m	ninutes. Remove contact lenses, i
First-aid measures after ingestion	: Do NOT induce		hing by mouth to an	unconscious person. Rinse
4.2. Most important symptoms a	nd effects, both acute and	delayed		
Symptoms/injuries	: The most impor 2.2) and/or in se		l effects are describ	ed in the labelling (see section
<b>4.3.</b> Indication of any immediate	medical attention and spe	cial treatment needed		
SECTION 5: Firefighting measure	ures			
5.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistan appropriate for s		ry powder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from				
Fire hazard	: Thermal decom Nitrogen oxides		n oxides. Hydrogen	chloride. Hydrogen fluoride.
.3. Advice for firefighters				
Firefighting instructions	: In case of fire: E	vacuate area.		
Protection during firefighting				with self contained breathing e controls/personal protection".
SECTION 6: Accidental release				
5.1. Personal precautions, protect				ation. Do not broothe dust
General measures		essary personnel. Ensure		ation. Do not breathe dust.
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1.1. For non-emergency personnel	
mergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
1.2. For emergency responders	
otective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
2. Environmental precautions	
void release to the environment. Notify au	thorities if product enters sewers or public waters.
3. Methods and material for conta	inment and cleaning up
or containment	: Stop leak if safe to do so.
ethods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
ther information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
4. Reference to other sections	
o additional information available	
ECTION 7: Handling and storage	e
1. Precautions for safe handling	
recautions 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.
/giene 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.
2. Conditions for safe storage, inc	luding any incompatibilities
echnical measures	: Comply with applicable regulations.
orage conditions	: Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep contents under inert gas.
compatible materials	: Refer to Section 10 on Incompatible Materials.
orage 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	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 127 - 129 °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

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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
Molecular mass	: 190.56 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

SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
No additional information available			
10.2.	Chemical stability		
The pro	duct is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
No addi	tional information available		
10.4.	Conditions to avoid		
Keep av	vay from heat, sparks and flame.		
10.5.	Incompatible materials		
Strong a	acids. 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	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic 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
Potential Adverse human health effects and symptoms	: Overexposure to this material may result in methemoglobinemia. Cyanosis may occur (lips and fingernails turn blue).

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SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
	tional 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
- DOT Special Provisions (49 CFR 172.102)

- : 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
- 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..... 178.275(d)(2)

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 and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153 DOT Quantity Limitations Passenger aircraft/rail : 100 kg (49 CFR 173.27)

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DOT Quantity Limitations Cargo aircraft on CFR 175.75)	ly (49 : 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)	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

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-Chloro-3-fluoro-6-nitroaniline	CAS No 948014-34-4	100%
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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

#### SECTION 16: Other information

Full	text	of	H-ph	rases:
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Acute toxicity (dermal) Category 3	
Acute toxicity (inhalation) Category 3	
Acute toxicity (oral) Category 3	
Serious eye damage/eye irritation Category 2A	
Skin corrosion/irritation Category 2	
Specific target organ toxicity (single exposure) Category 3	
Toxic if swallowed	
Toxic in contact with skin	
Causes skin irritation	
Causes serious eye irritation	
Toxic if inhaled	
May cause respiratory irritation	

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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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given		
Flammability	<ul> <li>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)</li> </ul>		
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.		

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.