

## 3-Chloro-4-fluorophenylhydrazine

Safety Data Sheet 3639707 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/30/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3-Chloro-4-fluorophenylhydrazine
AS No	: 84282-78-0
roduct code	: 3639-7-07
ormula	: C6H6CIFN2
ynonyms	: 2-Fluoro-5-(hydrazino)chlorobenzene
Other means of identification	: MFCD00042214
	substance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the sa	fety data sheet
SynQuest Laboratories, Inc. Ρ.Ο. Box 309 Alachua, FL 32615 - United States of Ameri Γ (386) 462-0788 - F (386) 462-7097	ica
nfo@synquestlabs.com - www.synquestlab	is.com
.4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
Eye Dam. 1H318 - Causes serioSTOT SE 3H335 - May cause re	bus eye damage
Eye Dam. 1H318 - Causes serioSTOT SE 3H335 - May cause rescul text of H-phrases: see section 162.2.Label elements	bus eye damage
Eye Dam. 1       H318 - Causes serio         STOT SE 3       H335 - May cause response res	bus eye damage
Eye Dam. 1 H318 - Causes serio STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	bus eye damage
Eye Dam. 1     H318 - Causes serio       STOT SE 3     H335 - May cause re       Full text of H-phrases: see section 16	espiratory irritation : : : : : : : : : : : : :
ye Dam. 1 H318 - Causes serio TOT SE 3 H335 - May cause re ull text of H-phrases: see section 16 <b>2. Label elements</b> HS-US labeling azard pictograms (GHS-US)	<ul> <li>r: view of the separatory irritation</li> <li>r: view of the separatory irritation</li> <li>r: view of the separatory of the separatory of the separatory irritation</li> <li>r: view of the separatory o</li></ul>

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	P362+P364 - Take off contaminated clot P403+P233 - Store in a well-ventilated p P405 - Store locked up P501 - Dispose of contents/container to	place. Keep contain	er tightly closed
Other hazards			
nal information available			
Jnknown acute toxicity (GHS US)			
able			
N 3: Composition/informatio	n on ingredients		
Substance			
type	: Mono-constituent		
	Product identifier	%	Classification (GHS-US)
-fluorophenylhydrazine tuent)	(CAS No) 84282-78-0	<= 100	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
H-phrases: see section 16		I	
Aixture			
able			
N 4: First aid measures			
Description of first aid measures			
easures general	: In case of accident or if you feel unwell, where possible). Move the affected pers		
easures after inhalation	: Remove person to fresh air and keep co respiration. Get immediate medical advice		hing. If not breathing, give artificial
easures after skin contact	: Wash with plenty of soap and water. Remedical advice/attention.	move contaminated	d clothing and shoes. Get immediate
easures 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.		
easures after ingestion	: Do NOT induce vomiting. Never give any mouth out with water. Get immediate me		
Most important symptoms and effect	s, both acute and delayed		
/injuries	: The most important known symptoms ar 2.2) and/or in section 11.	nd effects are desci	ribed in the labelling (see section
/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.		
ndication of any immediate medica	attention and special treatment needed		
otomatically.			
N 5: Firefighting measures			
Extinguishing media			
tinguishing media	: Alcohol resistant foam. Carbon dioxide. appropriate for surrounding fire.	Dry powder. Water	spray. Use extinguishing media
Special hazards arising from the su	stance or mixture		
3	: Thermal decomposition generates: Carb Nitrogen oxides.	oon oxides. Hydroge	en chloride. Hydrogen fluoride.
Advice for firefighters			
instructions	: In case of fire: Evacuate area.		
during firefighting	: Wear gas tight chemically protective clot apparatus. For further information refer t		
N 6: Accidental release meas	ures		
ersonal precautions, protective eq	ipment and emergency procedures		
easures	: Evacuate unnecessary personnel. Ensur	re adequate air ver	ntilation. Do not breathe dust.
For non-emergency personnel / procedures	: Only qualified personnel equipped with s	suitable protective e	equipment may intervene.
y instructions during firefighting N 6: Accidental release meas Personal precautions, protective eq easures For non-emergency personnel	Wear gas tight chemically protective clot apparatus. For further information refer t <b>ures</b> <b>iipment and emergency procedures</b> · Evacuate unnecessary personnel. Ensure	re adequate air ver	sure controls/personal ntilation. Do not breath

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6.1.2. For emergency respon	nders
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 precau	tions
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.
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 sec	tions
No additional information available	
SECTION 7: Handling and	l storage
7.1. Precautions for safe h	andling
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 sto	prage, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Moisture sensitive. Keep contents under inert gas. Protect from sunlight.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
-	: 2 - 8 °C Use explosion proof refrigerator
Storage temperature	. 2 - o C Ose explosion proor reingerator

Storage area : Store in dry, 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**

No data available
No data available
74 - 79 °C
No data available
Solid

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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	: 160.577 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	I 10: Stability and reactivity		
10.1. Re	eactivity		
No additional information available			
10.2. Cł	hemical stability		
The product is stable at normal handling and storage conditions.			
10.3. Po	ossibility of hazardous reactions		
No additional information available			
10.4. Co	onditions to avoid		
Keep away from heat, sparks and flame.			
10.5. In	compatible 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			
Acute toxicity	: Oral: Toxic if swallowed.		
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		

Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	<ul><li>Not classified</li><li>May cause respiratory irritation.</li></ul>
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
	<b></b>

Symptoms/injuries after inhalation	:	Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough,
		shortness of breath, headache, nausea.

SECTION	ON 12: Ecological information
12.1.	Toxicity
	in a linformation available

No additional information available

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12.2.	Persistence and degradability	
No additional information available		
no ada		
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No additional information available		
12.5.	Other adverse effects	
No additional information available		

13.1. Waste treatment methods	
Waste treatment methods Waste 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	
Department of Transportation (DOT) In accordance with DOT	
Transport document description	: UN2811 Toxic solids, organic, n.o.s., 6.1, III
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	<ul> <li>: UN2811</li> <li>: Toxic solids, organic, n.o.s.</li> <li>: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132</li> <li>: 6.1 - Poison</li> </ul>
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)	<ul> <li>III - Minor Danger</li> <li>213</li> <li>240</li> <li>G - Identifies PSN requiring a technical name</li> <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</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	must be transported in accordance with the applicable requirements of this subchapter. : 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
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.
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 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.

danger

Class (IMDG)	: 6.1 - Toxic substances	
Packing group (IMDG)	: III - substances presenting low	
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:

3-Chloro-4-fluorophenylhydrazine

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.

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#### 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-phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

100%

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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.