

# **4-Fluorophenylhydrazine hydrochloride** Safety Data Sheet 3639704 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/11/2018 Version: 1.0

SECTION 4. Manufilianti		
SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 4-Fluorophenylhydrazine hydrochlo	ride
CAS No	: 823-85-8	
Product code	: 3639-7-04	
Formula	: C6H8CIFN2	
Synonyms	: Hydrazine, (4-fluorophenyl)-, mono	hydrochloride
Other means of identification	: MFCD00012942	
1.2. Relevant identified uses of the sub	ostance or mixture and uses advised a	gainst
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	nt
1.3. Details of the supplier of the safety	y 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.c 1.4. Emergency telephone number	<u>om</u>	
Emergency number	: (844) 523-4086 (3E Company - Aco	count 10069)
SECTION 2: Hazard(s) identification	•	
2.1. Classification of the substance or		
Classification (GHS-US)		
Acute Tox. 4 (Oral)H302 - Harmful if sAcute Tox. 4 (Dermal)H312 - Harmful inAcute Tox. 4 (Inhalation)H332 - Harmful if iSkin Irrit. 2H315 - Causes skEye Irrit. 2AH319 - Causes seSTOT SE 3H335 - May cause	contact with skin nhaled in irritation	
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)		
	GHS07	
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	: H302+H312+H332 - Harmful if swa H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritat	
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, mist, s P264 - Wash skin thoroughly after I P270 - Do not eat, drink or smoke v P271 - Use only outdoors or in a w P280 - Wear protective gloves/prote P301+P312 - If swallowed: Call a F P302+P352 - If on skin: Wash with P304+P340 - If inhaled: Remove p P305+P351+P338 - If in eyes: Rins lenses, if present and easy to do. C P312 - Call a POISON CENTER or</li> </ul>	spray handling when using this product ell-ventilated area ective clothing/eye protection/face protection OISON CENTER or doctor/ physician if you feel unwell plenty of soap and water erson to fresh air and keep comfortable for breathing the cautiously with water for several minutes. Remove contact continue rinsing
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		P33 P33 P36 P40 P40	80 - Rinse mouth 82+P313 - If skin irritation occurs: ( 87+P313 - If eye irritation persists: 82+P364 - Take off contaminated ( 93+P233 - Store in a well-ventilate) 95 - Store locked up 91 - Dispose of contents/container	Get medical advice/at clothing and wash it be d place. Keep contain	ttention efore reuse er tightly closed
2.3.	Other hazards				
No additio	onal information available				
2.4.	Unknown acute toxicity (GHS US)				
lot applic	able				
SECTIC	ON 3: Composition/informat	ion on i	ngredients		
3.1.	Substance				
Substance	e type	: Moi	no-constituent		
Name			Product identifier	%	Classification (GHS-US)
4-Fluorop (Main cons	henylhydrazine hydrochloride tituent)		(CAS No) 823-85-8	<= 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 o	f H-phrases: see section 16				
3.2.	Mixture				
Not applic					
SECTIC	ON 4: First aid measures				
.1.	Description of first aid measures				
irst-aid n	neasures general	whe	ase of accident or if you feel unwe are possible). Move the affected pe	ersonnel away from th	e contaminated area.
First-aid n	neasures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.			
	neasures after skin contact		sh with plenty of soap and water.		
	neasures after eye contact	pres	sent and easy to do. Continue rins	ing. Get immediate m	
-irst-aid n	neasures after ingestion		NOT induce vomiting. Never give uth out with water. Get immediate		
.2.	Most important symptoms and ef	ects, bot	h acute and delayed		
Symptom	s/injuries		e most important known symptoms and/or in section 11.	and effects are descr	ibed in the labelling (see section
4.3.	Indication of any immediate medi	cal attent	ion and special treatment neede	d	
reat sym	ptomatically.				
SECTIO	ON 5: Firefighting measures				
5.1.	Extinguishing media				
	extinguishing media		ohol resistant foam. Carbon dioxid ropriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
5.2.	Special hazards arising from the	substance	e or mixture		
Fire haza		: The	ermal decomposition generates: Ca	arbon oxides. Hydroge	en chloride. Hydrogen fluoride.
5.3.	Advice for firefighters				
Firefightin	g instructions	: In c	ase of fire: Evacuate area.		
Protection	during firefighting		ar gas tight chemically protective o aratus. For further information refe		
SECTIO	ON 6: Accidental release me	asures			
	Personal pressutions, protective	oquipmor	t and amarganay presedures		
6.1.	Personal precautions, protective		icuate unnecessary personnel. En		

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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 aut	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.
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 storag	je
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, inc	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.
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

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### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical a	nd chemical properties
5.1. Information on basic physical a	
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 208 - 210 °C (dec.)
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	: 162.593 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

Acute toxicity

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

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Aspiration hazard	: Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified		
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.		
Reproductive toxicity	: Not classified		
Carcinogenicity	: Not classified		
Germ cell mutagenicity	: Not classified		
Respiratory or skin sensitization	: Not classified		
Serious eye damage/irritation	: Causes serious eye irritation.		
Skin corrosion/irritation	: Causes skin irritation.		
ATE US (dust, mist)	1.500 mg/l/4h		
ATE US (vapors)	11.000 mg/l/4h		
ATE US (gases)	4500.000 ppmV/4h		
ATE US (dermal)	1100.000 mg/kg body weight		
ATE US (oral)	500.000 mg/kg body weight		
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SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available
12.5.	Other adverse effects
No addit	ional 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.			

#### **Department of Transportation (DOT)**

**SECTION 14: Transport information** 

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:

4-Fluorophenylhydrazine hydrochloride	CAS No 823-85-8	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-Fluorophenylhydrazine hydrochloride (823-85-8)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 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

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#### SECTION 16: Other information

#### Full text of H-phrases:

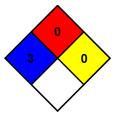
Acute toxicity (dermal) Category 4
Acute toxicity (inhalation) Category 4
Acute toxicity (oral) Category 4
Serious eye damage/eye irritation Category 2A
Skin corrosion/irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Harmful if swallowed
Harmful in contact with skin
Causes skin irritation
Causes serious eye irritation
Harmful if inhaled
May cause respiratory irritation

NFPA	health	hazard
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: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard NFPA reactivity : 0 - Materials that will not burn.

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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 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.