

Safety Data Sheet 3239501 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/26/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: (Cyclohexylmethyl)hydrazine hydrochloride
CAS No	: 3637-58-9
Product code	: 3239-5-01
Formula	: C7H17CIN2
Synonyms	: (Hydrazinomethyl)cyclohexane hydrochloride
Other means of identification	: MFCD06245509
	substance 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 sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
1.4. Emergency telephone number Emergency number	: (844) 523-4086 (3E Company - Account 10069)
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Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	irritation
Eye Irrit. 2A H319 - Causes serious eye	irritation
Skin Irrit. 2       H315 - Causes skin irritation         Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirato         Full text of H-phrases: see section 16         2.2.       Label elements	irritation bry irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation bry irritation : : : : : : : : : : : : : : : : : : :
Skin Irrit. 2       H315 - Causes skin irritation         Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirato         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	irritation bry irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>irritation by irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: GHS07</li> <li>: Warning</li> <li>: H315 - Causes skin irritation H319 - Causes serious eye irritation</li> </ul>

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2.2 Other herende				
2.3. Other hazards No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
	•	and Provide		
SECTION 3: Composition/information of	on ing	redients		
3.1. Substance	Maria			
Substance type :	Iviono-	constituent		
Name		Product identifier	%	Classification (GHS-US)
(Cyclohexylmethyl)hydrazine hydrochloride (Main constituent)		(CAS No) 3637-58-9	<= 100	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 :		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid measures after inhalation :		ve person to fresh air and keep comforta tion. Get medical advice/attention.	ble for breathin	g. If not breathing, give artificial
First-aid measures after skin contact :	Wash	with plenty of soap and water. Get medi	cal advice/atten	tion.
First-aid measures after eye contact :		liately flush eyes thoroughly with water f t and easy to do. Continue rinsing. Get		
First-aid measures after ingestion :		T induce vomiting. Never give anything out with water. Get medical advice/atter		unconscious person. Rinse
4.2. Most important symptoms and effects,	both a	cute 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.			
4.3. Indication of any immediate medical at	tention	and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
		I resistant foam. Carbon dioxide. Dry po riate for surrounding fire.	wder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the substa	ance oi	r mixture		
Fire hazard :	Therma	al decomposition generates: Carbon oxi	des. Hydrogen	chloride. Nitrogen oxides.
5.3. Advice for firefighters				
Firefighting instructions :	In case	e of fire: Evacuate area.		
Protection during firefighting :	-	gas tight chemically protective clothing in tus. For further information refer to sect		•
SECTION 6: Accidental release measur	res			
6.1. Personal precautions, protective equip		nd emergency procedures		
		ate unnecessary personnel. Ensure ade	quate air ventila	tion. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures :	Only q	ualified personnel equipped with suitable	e protective equ	ipment may intervene.
6.1.2.         For emergency responders           Protective equipment         :		attempt to take action without suitable p section 8: "Exposure controls/personal		ment. For further information
6.2. Environmental precautions				
Avoid release to the environment. Notify outborities	·	at an tana an an an tana tana		

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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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 section	ns	
No additional information available		
<b>SECTION 7: Handling and s</b>	torage	
7.1. Precautions for safe hand		
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 stora	ge, including any incompatibilities	

. Conditions for sale storage, including 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

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	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
pН	: No data available	
Melting point	: 141 - 144 °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	
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	: 164.68 g/mol	

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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 sto	prage 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 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.			
<b>SECTION 11: Toxicological informat</b>	SECTION 11: Toxicological information		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
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 : Not classified exposure)

Aspiration hazard

: Not classified

SECT	ION 12: Ecological information	on		
12.1.	Toxicity			
	litional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	litional information available			
12.4.	Mobility in soil			
No add	litional information available			
12.5.	Other adverse effects			
No add	litional information available			
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SECTION 13: Disposal consideration	ons			
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	n .			
Department of Transportation (DOT)				
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:				

(Cyclohexylmethyl)hydrazine hydrochloride CAS No 3637-58-9 100%			
		CAS No 3637-58-9	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

### 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:

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
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 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.