

2-(Dimethylamino)ethylhydrazine dihydrochloride Safety Data Sheet 3139503 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/26/2016 Version: 1.0

1.1. Identification	. Cultura
Product form	: Substance
Substance name	: 2-(Dimethylamino)ethylhydrazine dihydrochloride
CAS No	: 57659-80-0
Product code	: 3139-5-03
Formula	: C4H15Cl2N3
Synonyms	: N,N-Dimethyl-2-hydrazinoethylamine dihydrochloride
Other means of identification	: MFCD09265075
1.2. Relevant identified uses of the sub-	stance 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 safety	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.co	<u>m</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or r	
	mixture
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation	
STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16	
STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 2.2. Label elements	
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STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	ritation : CHS07 : Warning
Full text of H-phrases: see section 16	ritation : tion : tion : tion
STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	ritation : : : GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

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2.3. Other hazards	S			
No additional information	n available			
2.4. Unknown acu	te toxicity (GHS US)			
Not applicable				
SECTION 3: Comp	osition/information on ir	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-(Dimethylamino)ethylhyd (Main constituent)	drazine dihydrochloride	(CAS No) 57659-80-0	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: se	ee section 16	•		
3.2. Mixture				
Not applicable				
SECTION 4: First a	aid measures			
4.1. Description o	f first aid measures			
First-aid measures gene	when	ase of accident or if you feel unwell, seek r re possible). Move the affected personnel	away from the c	contaminated area.
First-aid measures after		ove person to fresh air and keep comforta iration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid measures after		h with plenty of soap and water. Get medi		
First-aid measures after	pres	ediately flush eyes thoroughly with water f ent and easy to do. Continue rinsing. Get	medical advice/	attention.
First-aid measures after	0	IOT induce vomiting. Never give anything th out with water. Get medical advice/atter	,	unconscious person. Rinse
4.2. Most importa	nt symptoms and effects, both	acute and delayed		
Symptoms/injuries		most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of	any immediate medical attention	on and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefig	ghting measures			
5.1. Extinguishing				
Suitable extinguishing m		hol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazar	ds arising from the substance	or mixture		
Fire hazard	: Ther	mal decomposition generates: Carbon ox	ides. Hydrogen	chloride. Nitrogen oxides.
5.3. Advice for fire	efighters			
Firefighting instructions	: In ca	ase of fire: Evacuate area.		
Protection during firefigh		r gas tight chemically protective clothing in aratus. For further information refer to sect		
	ental release measures			
	cautions, protective equipment			
General measures	: Eva	cuate unnecessary personnel. Ensure ade	quate air ventila	tion. Do not breathe dust.
6.1.1. For non-emer	gency personnel			
Emergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
6.1.2. For emergend	cy responders			

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

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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 stor	age
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, i	ncluding 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.

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 a	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pН	: No data available
Melting point	: 88 - 91 °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	: 176.09 g/mol
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Solubility Log Pow Auto-ignition temperature Decomposition temperature Viscosity Viscosity, kinematic Viscosity, dynamic	 No data available
9.2. Other information	: No data available : No data available
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	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4.Conditions to avoidKeep away from heat, sparks and flame.10.5.Incompatible materials	
Strong bases. Strong oxidizing agents.	
10.6. Hazardous decomposition products	;
fire, see Section 5. SECTION 11: Toxicological informat	
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fire, see Section 5. SECTION 11: Toxicological informat	ion
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No additional informatio		
12.4. Mobility in so		
No additional informatio	n available	
12.3. Bioaccumula	tive potential	
No additional informatio	n available	
12.2. Persistence	and degradability	

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SECTION 13: Disposal considera	tions
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 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:

2-(Dimethylamino)ethylhydrazine dihydrochloride	CAS No 57659-80-0	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

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.