

Piperazine, N-CBZ protected

Safety Data Sheet 4H561370 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/11/2016 Version: 1.0

SECTION 1: Identification 1.1. Identification	
1.1. Identification	
Product form	: Substance
ubstance name	: Piperazine, N-CBZ protected
AS No	: 31166-44-6
roduct code	: 4H56-1-370
ormula	: C12H16N2O2
ynonyms	: Benzyl piperazine-1-carboxylate; 1-[(Benzyloxy)carbonyl]piperazine
ther means of identification	: MFCD00274317
2. Relevant identified uses of the s	substance or mixture and uses advised against
se of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the saf	iety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - www.synquestlabs	
.4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
Full text of H-phrases: see section 16	
2 Labol olomonte	
2.2. Label elements GHS-US labeling	
GHS-US labeling	
HS-US labeling lazard pictograms (GHS-US)	: GHS07
GHS-US labeling lazard pictograms (GHS-US) Signal word (GHS-US)	: GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)	: Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS U	JS)			
Not applicable				
SECTION 3: Composition/inform	ation on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Piperazine, N-CBZ protected (Main constituent)		(CAS No) 31166-44-6	<= 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 measure		an of anoidant or if you feel		hippimmodiately (show the let al
First-aid measures general	where	e possible). Move the affected p	ersonnel away from	
First-aid measures after inhalation		ove person to fresh air and keep ration. Get medical advice/atten		eathing. If not breathing, give artificial
First-aid measures after skin contact	: Wash	n with plenty of soap and water.	Get medical advice	/attention.
First-aid measures after eye contact		ediately flush eyes thoroughly w ent and easy to do. Continue rin		15 minutes. Remove contact lenses, if dvice/attention.
First-aid measures after ingestion	: Do N mout	OT induce vomiting. Never give h out with water. Get medical ac	anything by mouth dvice/attention.	to an unconscious person. Rinse
4.0 Mont immediate for the second second	effecte heth			
4.2. Most important symptoms and	effects, both	acute and delayed		
	: The r	•	s and effects are de	escribed in the labelling (see section
Symptoms/injuries	: The r 2.2) a	most important known symptom and/or in section 11.		escribed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate me	: The r 2.2) a	most important known symptom and/or in section 11.		escribed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate me Treat symptomatically.	: The r 2.2) a edical attentio	most important known symptom and/or in section 11.		escribed in the labelling (see section
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6.2. Environmental precautions			
Avoid release to the environment. Notify a	uthorities if product enters sewers or public waters.		
6.3. Methods and material for cont	Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.		
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 stora	ge		
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 fumes, mist, spray, vapors. 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, including any incompatibilities			
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use.		
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	d chemical properties		
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
PH	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 158 - 161 °C (@ 1.4 mm Hg)		
Flash point	: 118 °C		
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		
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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.142 g/ml (@ 25 °C)
Molecular mass	: 220.27 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	
Refractive index	: 1.546 (@ 20 °C)

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S		10- S	tability	and rea	

10.1.	Reactivity			
No addi	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	Keep away from heat, sparks and flame.			
10.5.	Incompatible materials			
Strong of	oxidizing agents.			

Hazardous decomposition products 10.6.

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	: 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 exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECTI	ON 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consider	ations	
13.1. Waste treatment methods		
Waste treatment methods Waste disposal recommendations Additional information	 Remove to an authorized incinerator equipped with Dispose of contents/container in accordance with I Recycle the material as far as possible. 	-
SECTION 14: Transport informa	ion	
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 inform	ation	
15.1. US Federal regulations		
All components of this product are listed, Substances Control Act (TSCA) inventory	or excluded from listing, on the United States Environmenta except for:	Protection Agency Toxic
Piperazine, N-CBZ protected	CAS No 31166-44-6	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	: 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	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 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)
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.