

Piperazine diacrylamide Safety Data Sheet 4H48114 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/02/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
	: Substance		
Substance name	: Piperazine diacrylamide		
	: 6342-17-2		
	: 4H48-1-14		
	: C10H14N2O2		
		Di(acryloyl)piperazine; N,N'-Bis(acryloyl)piperazine	- BAP PDA
Cynonymo	Piperazine diacrylamide		o, b/a , i b/a,
Other means of identification	MFCD00077661		
1.2. Relevant identified uses of the substa	ince or mixture and uses advise	d against	
	: Laboratory chemicals		
	Manufacture of substances		
	Scientific research and develop	nent	
1.3. Details of the supplier of the safety da	ata 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.com			
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 mix	ture		
Classification (GHS-US)			
Skin Irrit. 2 H315 - Causes skin irritation			
Eye Irrit. 2A H319 - Causes serious eye irritatio			
STOT SE 3 H335 - May cause respiratory irrita	tion		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
Signal word (GHS-US)	GHS07		
	: Warning		
Hazard statements (GHS-US)	 H315 - Causes skin irritation H319 - Causes serious eye irritation 	tion	
	H335 - May cause respiratory ir		
Precautionary statements (GHS-US)	: P261 - Avoid breathing dust, mi	st, spray	
	P264 - Wash skin thoroughly af		
	P271 - Use only outdoors or in a	well-ventilated area rotective clothing/eye protection/face protection	
	P302+P352 - If on skin: Wash v		
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing			
		tinse cautiously with water for several minutes. Re	move contact
	lenses, if present and easy to d	 Continue rinsing t or doctor/physician if you feel unwell 	
		upplemental first aid instructions on this label)	
	P332+P313 - If skin irritation oc	curs: Get medical advice/attention	
		sists: Get medical advice/attention	
		ated clothing and wash it before reuse Itilated place. Keep container tightly closed	
	P405 - Store locked up		
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P501 - Dispose of contents/container to an approved waste disposal plant

	1.00			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)			
Not applicable				
SECTION 3: Composition/informa	ion on i	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Piperazine diacrylamide (Main constituent)		(CAS No) 6342-17-2	<= 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		ase of accident or if you feel unwell, seek re possible). Move the affected personnel		
First-aid measures after inhalation		nove 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 skin contact		h with plenty of soap and water. Get medi		
First-aid measures after eye contact	pres	ediately flush eyes thoroughly with water t ent and easy to do. Continue rinsing. Get	medical advice/	attention.
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.				
4.2. Most important symptoms and effects, both acute 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 med	cal attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures	;			
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard	: The	mal decomposition generates: Carbon ox	ides. Nitrogen o	oxides.
5.3. Advice for firefighters				
Firefighting instructions	: In ca	ase of fire: Evacuate area.		
Protection during firefighting : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".				
SECTION 6: Accidental release me				
6.1. Personal precautions, protective				
General measures	: Eva	cuate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	uipment may intervene.
6.1.2 For omorgonour reconciders	-			
6.1.2. For emergency responders Protective equipment		not attempt to take action without suitable		ment. For further information
6.2 Environmental pressutions		,		
6.2. Environmental precautions Avoid release to the environment. Notify auth	orities if pro	duct enters sewers or public waters		
AVOID TELEASE TO THE ENVIRONMENT. NOUNV AUTO	JULIES IL DIC			

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

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6.3. Methods and material for contai	.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 sections					
No additional information available					
No additional information available					
	e				
No additional information available SECTION 7: Handling and storag 7.1. Precautions for safe handling	je				
SECTION 7: Handling and storag	 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. 				

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 ph	ysical and chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 91.5 - 93.5 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl ace	tate=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	: 194.23 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

SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
No add	itional information available	
10.2.	Chemical stability	
The pro	oduct is stable at normal handling and stor	rage conditions.
10.3.	Possibility of hazardous reactions	
No add	itional information available	
10.4.	Conditions to avoid	
Keep a	way from heat, sparks and flame.	
10.5.	Incompatible materials	
Strong	oxidizing agents.	
10.6.	Hazardous decomposition products	
	normal conditions of storage and use, haz e Section 5.	ardous decomposition products should not be produced. Hazardous decomposition products in case of
SECT	ION 11: Toxicological information	ion
11.1.	Information on toxicological effects	
Acute to	oxicity	: Not classified
01.1.1.1.1.1	under alle and frankling the second	

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

SECT	ION 12: Ecological information	on		
12.1.	Toxicity			
No add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
12.4.	Mobility in soil			
No add	itional information available			
12.5.	Other adverse effects			
No add	itional information available			
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SECTION 13: Disposal consideration	e	
13.1. Waste treatment methods Waste treatment methods Waste disposal recommendations Additional information Mathematical Statematical	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. 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:		

Piperazine diacrylamide CAS No 6342-17-2 100%			
	Piperazine diacrylamide	CAS No 6342-17-2	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.