

Safety Data Sheet 8669188 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/10/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	
CAS No	: 1,3-Benzenedisulfonyl diazide : 4547-69-7
	: 8669-1-88
Product code	
Formula	: C6H4N6O4S2
Synonyms	: Benzene-1,3-bis(sulfonyl azide)
	ance 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 d	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	
	: (844) 523-4086 (3E Company - Account 10069)
	. (044) 323 4000 (3E 0011party - Account 10003)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mi	xture
Classification (GHS-US)	
	on e irritation or asthma symptoms or breathing difficulties if inhaled e to organs through prolonged or repeated exposure
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: CH506 CH508 CH508
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H205 - May mass explode in fire H300 - Fatal if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H373 - May cause damage to organs through prolonged or repeated exposure H401 - Toxic to aquatic life
Precautionary statements (GHS-US)	 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P230 - Keep wetted with P240 - Ground/bond container and receiving equipment P250 - Do not subject to grinding/shock//friction P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection
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	P301+P3 ⁻ P302+P35 P304+P34 P305+P35 lenses, if P314 - Ge P321 - Sp P330 - Rin P332+P3 ⁻ P332+P3 ⁻ P342+P3 P362+P36 P370+P38 P372 - Ex P373 - DC P401 - Sto P405 - Sto	 13 - If skin irritation occurs: Get me 13 - If eye irritation persists: Get me 14 - If experiencing respiratory sym 54 - Take off contaminated clothing 30 - In case of fire: Evacuate area plosion risk in case of fire NOT fight fire when fire reaches e 	a poison center/d soap and water resh air and keep sly with water for insing el unwell first aid instruction dical advice/atter edical advice/atter ptoms: Call a poi and wash it befor explosives	loctor/ comfortable for breathing several minutes. Remove contact ons on this label) ntion ntion son center/doctor/ re reuse
2.3. Other hazards				
Other hazards not contributing to the : classification	Heating m	ay cause violent combustion or ex	plosion. Avoid sh	ock and friction.
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on ingre	dients		
3.1. Substance				
Substance type :	Mono-con	stituent		
Name	Pre	oduct identifier	%	Classification (GHS-US)
1,3-Benzenedisulfonyl diazide (Main constituent)	(CA	IS No) 4547-69-7	<= 100	Expl. 1.5, H205 Acute Tox. 1 (Oral), H300 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 STOT RE 2, H373 Aquatic Acute 2, H401
Full text of H-phrases: see section 16				Aqualic Acule 2, 11401
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
•		accident or if you feel unwell, seek ssible). Move the affected personne		
First-aid measures after inhalation :		person to fresh air and keep comfor n. Get immediate medical advice/at		ng. If not breathing, give artificial
		plenty of soap and water. Get imm		
	present ar	ely flush eyes thoroughly with water nd easy to do. Continue rinsing. Ge	et immediate med	lical advice/attention.
First-aid measures after ingestion :		nduce vomiting. Never give anythin with water. Get immediate medica		
4.2. Most important symptoms and effects				
Symptoms/injuries :		important known symptoms and ef r in section 11.	fects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical a	ttention an	d special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
		sistant foam. Carbon dioxide. Dry p	powder. Water sp	oray. Use extinguishing media
Unsuitable extinguishing media :		e a heavy water stream.		
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5.2. Special hazards arising from th	2. Special hazards arising from the substance or mixture		
Fire hazard	: Thermal decomposition generates: Carbon oxides. Nitrogen oxides. Sulfur oxides.		
Explosion hazard	: Prevent shock/impact.		
Reactivity	: Heating may cause a fire or explosion.		
5.3. Advice for firefighters			
Firefighting instructions	: In case 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 measures				
6.1.	6.1. Personal precautions, protective equipment and emergency procedures			
General	measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.		
6.1.1.	For non-emergency personnel			
Emergen	cy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2.	For emergency responders			
Protectiv	e 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 rel	ease to the environment. Notify authoritie	s if product enters sewers or public waters.		
6.3.	Methods and material for containmer	t and cleaning up		
For conta	ainment	: 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 info	ormation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4.	Reference to other sections			
No additi	onal information available			
SECTIO	ON 7: Handling and storage			
7.1.	Precautions for safe handling			
Precautio	ons 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, including	g any incompatibilities		
Technica	I measures	: Comply with applicable regulations.		
Storage of	conditions	: Keep container closed when not in use.		

Clorage conditions	. Reep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, cool, well-ventilated area. Light sensitive.

SECTION 8: Exposure controls/personal protection 8.1 Control parameters

o.r. Control parameters		
1,3-Benzenedisulfonyl diazid	e (4547-69-7)	
DNEL	DNEL	>=

8.2. Exposure controls			
Appropriate engineering controls		ork station. Emergency eye wash fountains an diate vicinity of any potential exposure.	nd safety showers
Hand protection	: Protective gloves. 29 CFR 1910	.138: Hand Protection.	
Eye protection	: Chemical goggles or safety glas	ses. Face shield. 29 CFR 1910.133: Eye and I	Face Protection.
Skin and body protection	: Wear suitable protective clothing].	
Respiratory protection	: In case of inadequate ventilatior Protection.	wear respiratory protection. 29 CFR 1910.134	4: Respiratory
Other information	: Safety shoes. 29 CFR 1910.136	: Foot Protection.	
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SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
, Melting point	: 82 - 84 °C
Freezing point	: No data available
Boiling point	: 277 °C
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	: 288.264 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	

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
Heating	may cause a fire or explosion.
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions. May mass explode in fire.
10.3.	Possibility of hazardous reactions
Heating	may cause an explosion.
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Acids. E	Bases. Oxidizing agents. Reducing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity : Oral: Fatal if swallowed.			
1,3-Benzenedisulfonyl diazide (4	547-69-7)		
ATE US (oral)	0.500 mg/kg body weight		
Skin corrosion/irritation	: Causes skin irritation.		

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Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

SECTION 12: Ecological information
12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
No additional 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.			

SECTION 14: Transport information

Department of Transportation (DOT) In accordance with DOT Transport document description	: UN2811 Toxic solids, organic, n.o.s., 6.1, II
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	 : UN2811 : Toxic solids, organic, n.o.s. : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 : 6.1 - Poison
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols	 II - Medium Danger 212 242 G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	:	IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	100 kg
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	:	2811 TOXIC SOLID, ORGANIC, N.O.S. 6.1 - Toxic substances II - substances presenting medium danger
Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)	:	2811 Toxic solid, organic, n.o.s. 6.1 - Toxic Substances II - Medium Danger
SECTION 15: Regulatory information	۱	

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:

1,3-Benzenedisulfonyl diazide	CAS No 4547-69-7	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

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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:

Acute Tox. 1 (Oral)	Acute toxicity (oral) Category 1	
Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazar		
Expl. 1.5	Explosive Category 1.5	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Resp. Sens. 1	Respiratory sensitisation Category 1	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
H205	May mass explode in fire	
H300	Fatal if swallowed	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H334	May cause allergy or asthma symptoms or breathing difficult inhaled	
H373	May cause damage to organs through prolonged or repeated exposure	
H401	Toxic to aquatic life	

NFPA health hazard

NFPA fire hazard

NFPA reactivity

HMIS III Rating Health

Flammability

Physical

	residual injury even though prompt medical attention was given.	2
:	2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.	3
:	2 - Normally unstable and readily undergo violent	

: 3 - Short exposure could cause serious temporary or

- decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.
- 3 2
- : 3 Serious Hazard Major injury likely unless prompt action is taken and medical treatment is given
 - : 2 Moderate Hazard Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
- : 2 Moderate Hazard Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.

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.