

1,4-Diiodobutane Safety Data Sheet 1100H14 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 04/17/2017

Dau			
SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1,4-Diiodobutane		
CAS No	: 628-21-7		
Product code	: 1100-H-14		
Formula	: C4H8I2		
Synonyms	: Tetramethylene diiodide		
Other means of identification	: MFCD00001099		
1.2. Relevant identified uses of the	substance or mixture and uses adv	ised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and deve		
1.3. Details of the supplier of the sa	fety 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 Compan	y - Account 10069)	
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		
2.2. Label elements			
GHS-US labeling Hazard pictograms (GHS-US)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	<ul> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye i</li> <li>H335 - May cause respirator</li> </ul>		
Precautionary statements (GHS-US)	P302+P352 - If on skin: Was P304+P340 - If inhaled: Ren P305+P351+P338 - If in eye lenses, if present and easy tr P312 - Call a POISON CEN P321 - Specific treatment (se P332+P313 - If skin irritation P337+P313 - If eye irritation P362+P364 - Take off conta P403+P233 - Store in a well-	r after handling in a well-ventilated area es/protective clothing/eye protection/face protection h with plenty of soap and water hove person to fresh air and keep comfortable for bi s: Rinse cautiously with water for several minutes.	reathing
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No additional information available				
2.4. Unknown acute toxicity (GHS L	JS)			
Not applicable				
SECTION 3: Composition/inform	nation on in	gredients		
3.1. Substance				
Substance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
1,4-Diiodobutane (Main constituent)		(CAS No) 628-21-7	<= 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	es			
First-aid measures general	where	se of accident or if you feel unwell, e possible). Move the affected pers	onnel away from the	contaminated area.
First-aid measures after inhalation	respi	ove person to fresh air and keep co ration. Get medical advice/attention	۱.	
First-aid measures after skin contact		with plenty of soap and water. Ge		
First-aid measures after eye contact	prese	ediately flush eyes thoroughly with ant and easy to do. Continue rinsing	g. Get medical advice	e/attention.
First-aid measures after ingestion	mout	OT induce vomiting. Never give an h out with water. Get medical advice		n unconscious person. Rinse
4.2. Most important symptoms and	effects, both	acute and delayed		
4.3. Indication of any immediate me	2.2) a	nost important known symptoms a and/or in section 11. n and special treatment needed	nd effects are descrit	ed in the labelling (see section
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6.2. Environmental precautions	
Avoid release to the environment. Notify author	orities if product enters sewers or public waters.
6.3. Methods and material for contain	ment 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 storage	
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, inclu	Iding 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. Light sensitive.

# 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**

Flash point Relative evaporation rate (butyl acetate=1)	: No data available : No data available	
Boiling point	: 147 - 152 °C	
Melting point Freezing point	: 6 °C : No data available	
Odor threshold pH	: No data available : No data available	
Color Odor	<ul><li>No data available</li><li>No data available</li></ul>	
9.1. Information on basic physical an Physical state	: Liquid	

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 2.35 g/ml (@ 25 °C)
Molecular mass	: 309.92 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	· 1 621 (@ 20 °C)

Refractive index

: 1.621 (@ 20 °C)

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 storage 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 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.

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 addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional 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 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	on	

#### 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

### 1,4-Diiodobutane (628-21-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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	
1,4-Diiodobutane (628-21-7)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
EU-Regulations	

No additional information available

# National regulations 1,4-Diiodobutane (628-21-7)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 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**

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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
NFPA health hazard NFPA fire hazard NFPA reactivity	<ul> <li>2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</li> <li>0 - Materials that will not burn.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
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.