

Safety Data Sheet 1700926 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/09/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1,2-Bis(bromomethyl)benzene
CAS No	: 91-13-4
Product code	: 1700-9-26
Formula	: C8H8Br2
Synonyms	: o-Xylylene dibromide
Other means of identification	: MFCD00000175
1.2. Relevant identified uses of the s	substance 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 saf	iety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	
Classification (GHS-US)	
Skin Corr. 1BH314 - Causes severEye Dam. 1H318 - Causes seriouSTOT SE 3H335 - May cause res	e skin burns and eye damage us eye damage spiratory irritation
Skin Corr. 1BH314 - Causes severEye Dam. 1H318 - Causes seviouSTOT SE 3H335 - May cause resAquatic Acute 3H402 - Harmful to aqueAquatic Chronic 3H412 - Harmful to aque	e skin burns and eye damage us eye damage spiratory irritation
Skin Corr. 1BH314 - Causes severEye Dam. 1H318 - Causes seviouSTOT SE 3H335 - May cause resAquatic Acute 3H402 - Harmful to aqAquatic Chronic 3H412 - Harmful to aq	e skin burns and eye damage us eye damage spiratory irritation uatic life
Skin Corr. 1BH314 - Causes severEye Dam. 1H318 - Causes seriouSTOT SE 3H335 - May cause restAquatic Acute 3H402 - Harmful to aquAquatic Chronic 3H412 - Harmful to aquFull text of H-phrases: see section 16	e skin burns and eye damage us eye damage spiratory irritation uatic life
Skin Corr. 1BH314 - Causes severEye Dam. 1H318 - Causes seriouSTOT SE 3H335 - May cause restAquatic Acute 3H402 - Harmful to aquAquatic Chronic 3H412 - Harmful to aquFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	e skin burns and eye damage us eye damage spiratory irritation uatic life
Skin Corr. 1BH314 - Causes severEye Dam. 1H318 - Causes seriouSTOT SE 3H335 - May cause restAquatic Acute 3H402 - Harmful to aquAquatic Chronic 3H412 - Harmful to aquFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	e skin burns and eye damage us eye damage spiratory irritation uatic life
Skin Corr. 1B       H314 - Causes sever         Eye Dam. 1       H318 - Causes seriou         STOT SE 3       H335 - May cause rest         Aquatic Acute 3       H402 - Harmful to aque         Aquatic Chronic 3       H412 - Harmful to aque         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)	re skin burns and eye damage us eye damage spiratory irritation uatic life uatic life with long lasting effects
Skin Corr. 1BH314 - Causes severEye Dam. 1H318 - Causes seriouSTOT SE 3H335 - May cause resAquatic Acute 3H402 - Harmful to aqAquatic Chronic 3H412 - Harmful to aqFull text of H-phrases: see section 16	re skin burns and eye damage us eye damage spiratory irritation uatic life uatic life with long lasting effects : CHS05 GHS05 GHS07

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	lenses, if present and easy to do. ( P310 - Immediately call a POISON P321 - Specific treatment (see sup P330 - Rinse mouth P363 - Wash contaminated clothir P403+P233 - Store in a well-ventil P405 - Store locked up P501 - Dispose of contents/contain	N CENTER or doctor/ phy oplemental first aid instru ng before reuse lated place. Keep contair	ctions on this label) ner tightly closed
2.3. Other hazards			
Other hazards not contributing to the classification	: Lachrymator.		
2.4. Unknown acute toxicity (GHS L	JS)		
Not applicable			
SECTION 3: Composition/inform	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1,2-Bis(bromomethyl)benzene (Main constituent)	(CAS No) 91-13-4	<= 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
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			
First-aid measures general	<ul> <li>In case of accident or if you feel un where possible). Move the affected</li> </ul>		
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and ke respiration. Get immediate medica</li> </ul>	eep comfortable for breat	
First-aid measures after skin contact	: Wash with plenty of soap and wate medical advice/attention.	er. Remove contaminated	d clothing and shoes. Get immediate
First-aid measures after eye contact	present and easy to do. Continue	rinsing. Get immediate m	
First-aid measures after ingestion	: Do NOT induce vomiting. Never gi mouth out with water. Get immedia		
	effects, both acute and delayed		
Symptoms/injuries	: The most important known sympto 2.2) and/or in section 11.		
Symptoms/injuries after inhalation	: Material is destructive to tissue of shortness of breath, headache, na		s and upper respiratory tract. Cough,
<b>4.3.</b> Indication of any immediate me Treat symptomatically.	edical attention and special treatment ne	eded	
SECTION 5: Firefighting measure	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dic appropriate for surrounding fire.	oxide. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from th	e substance or mixture		
Fire hazard	: Thermal decomposition generates		
Explosion hazard	: When mixed with air and exposed explode if confined.	to an ignition source, du	st may burn in the open air or
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fig	ht fire remotely due to the	e risk of explosion.
Protection during firefighting	: Wear gas tight chemically protection apparatus. For further information		
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SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only gualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective 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 release to the environment. Notify authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containment	nt 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	
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 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, includin	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
-	Direct sunlight.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
No additional information available	

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.

<b>SECTION 9: Physical an</b>	d chemical properties		
9.1. Information on basic	physical 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 - 96 °C		
Freezing point	: No data available		
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Boiling point		:	129 °C (at 5.9995 hPa)
Flash point		:	No data available
Relative evapor	ation rate (butyl acetate=1)	:	No data available
Flammability (so	olid, gas)	:	No data available
Explosion limits		:	No data available
Explosive prope	rties	:	No data available
Oxidizing prope	rties	:	No data available
Vapor pressure		:	No data available
Relative density	,	:	No data available
Relative vapor of	lensity at 20 °C	:	No data available
Specific gravity	/ density	:	1.96 g/ml (@ 25 °C)
Molecular mass		:	263.957 g/mol
Solubility		:	No data available
Log Pow		:	No data available
Auto-ignition ter	nperature	:	No data available
Decomposition	temperature	:	No data available
Viscosity		:	No data available
Viscosity, kinem	atic	:	No data available
Viscosity, dynar	nic	:	No data available

#### 9.2. **Other information**

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 storage conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Keep away from heat, sparks and flame.
10.5. Incompatible materials
Amines. 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.

SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed.

1,2-Bis(bromomethyl)benzene (91-13-4)			
ATE US (oral)	US (oral) 500.000 mg/kg body weight		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
Serious eye damage/irritation	: Causes serious eye damage.		
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		

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Aspiration hazard	: Not classified

Symptoms/injuries after inhalation

: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECT	FION 12: Ecological information		
12.1.	Toxicity		
No addi	litional information available		
12.2.	Persistence and degradability		
No addi	litional information available		
12.3.	Bioaccumulative potential		
No addi	ditional information available		
12.4.	Mobility in soil		
No addi	litional information available		
12.5.	Other adverse effects		
12.3.	Other auverse enects		

No additional information available

SECTION 13: Disposal consider 13.1. Waste treatment methods	
Waste treatment methods Waste disposal recommendations	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> </ul>
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	tion

### Department of Transportation (DOT)

In accordance with DOT Transport document description

Hazard labels (DOT)

: UN3448 Tear gas substance, solid, n.o.s., 6.1, II

- UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT)
- : Tear gas substance, solid, n.o.s. : 61 - Class 61 - Poisonous mate
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison

: UN3448

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)	:	None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	50 kg
DOT Vessel Stowage Location		D - The material must be stowed "on deck only" 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, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	:	12 - Keep as cool as reasonably practicable,40 - Stow "clear of living quarters",52 - Stow "separated from" acids
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	:	3448
Proper Shipping Name (IMDG)	:	TEAR GAS SUBSTANCE, SOLID, N.O.S.
Class (IMDG)		6.1 - Toxic substances
Packing group (IMDG)		II - substances presenting medium danger
Air transport		
UN-No. (IATA)	:	3448
Proper Shipping Name (IATA)	:	Tear gas substance, solid, n.o.s.
Class (IATA)	:	6.1 - Toxic Substances
Packing group (IATA)	:	II - Medium Danger
SECTION 15: Regulatory information	١	
15.1. US Federal regulations		

### 15.1. US Federal regulations

1,2-Bis(bromomethyl)benzene (91-13-4) 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.

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Listed on the Canadian NDSL (Nor	n-Domestic Substances List)		
1,2-Bis(bromomethyl)benzene (9	1-13-4)		
CANADA			
15.2. International regulations			
15.2 International regulations			

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#### **EU-Regulations**

No additional information available

#### National regulations

1,2-Bis(bromomethyl)benzene (91-13-4) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) 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

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects
	<ul> <li>: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>: 1 - Must be preheated before ignition can occur.</li> </ul>
NFPA health hazard NFPA fire hazard NFPA reactivity	residual injury even though prompt medical attention was given.
NFPA fire hazard	residual injury even though prompt medical attention was given. : 1 - Must be preheated before ignition can occur. : 0 - Normally stable, even under fire exposure conditions,
NFPA fire hazard NFPA reactivity	residual injury even though prompt medical attention was given. : 1 - Must be preheated before ignition can occur. : 0 - Normally stable, even under fire exposure conditions,
NFPA fire hazard NFPA reactivity HMIS III Rating	<ul> <li>residual injury even though prompt medical attention was given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> <li>3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment</li> </ul>

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.