

Safety Data Sheet 1300924 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 05/01/2020

SECTION 1: Identificatio	n	
1.1. Identification		
Product form	:	: Substance
Substance name	:	: 2-Bromobutene
CAS No	:	: 23074-36-4
Product code	:	: 1300-9-24
Formula	:	: C4H7Br
Synonyms	:	: 2-Bromobut-1-ene / 2-Bromo-1-butene
1.2. Relevant identified us	ses of the substa	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 supplie	er of the safety da	ata sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United Stat T (386) 462-0788 - F (386) 462- info@synquestlabs.com - www.s 1.4. Emergency telephon	7097 synquestlabs.com	
Emergency number		: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) id	entification	
2.1. Classification of the		xture
Classification (GHS-US)		
Skin Corr. 1A H314 Eye Dam. 1 H318 STOT SE 3 H338 Aquatic Acute 2 H407	 8 - Causes seriou 5 - May cause res 1 - Toxic to aquati 1 - Toxic to aquati 	e skin burns and eye damage us eye damage spiratory irritation
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)		: GHS02 GHS05 GHS07 GHS09 : Danger
Signal word (CUS US)		
• • •		
Signal word (GHS-US) Hazard statements (GHS-US)		 H225 - Highly flammable liquid and vapor H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation H411 - Toxic to aquatic life with long lasting effects
• • •		: H225 - Highly flammable liquid and vapor H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation

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	lenses, if present and easy to do. C P310 - Immediately call a POISON P321 - Specific treatment (see supp P330 - Rinse mouth P363 - Wash contaminated clothing	ective clothing/eye prote OISON CENTER or doo nse mouth. Do NOT inc air): Take off immediate erson to fresh air and ke e cautiously with water ontinue rinsing CENTER or doctor/ phy olemental first aid instru y before reuse y sand, dry chemical or ted place. Keep cool	ctor/ physician if you feel unwell duce vomiting ly all contaminated clothing. Rinse eep comfortable for breathing for several minutes. Remove contact visician ctions on this label) alcohol-resistant foam to extinguish her tightly closed
2.3. Other hazards			
Other hazards not contributing to the classification	: In use may form flammable/explosiv	ve vapor-air mixture. La	chrymator.
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/informatio	n on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Bromobutene (Main constituent)	(CAS No) 23074-36-4	<= 100	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Full text of H-phrases: see section 16		·	
.2. Mixture			
lot applicable			

Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.	
First-aid measures after skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.	
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate 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 immediate medical advice/attention.	
4.2. Most important symptoms and ef	fects, 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.	
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.	
1.3 Indication of any immediate medi	ical attention and special treatment needed	

Indication of any immediate medical attention and special treatment needed 4.3.

Treat symptomatically.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the s	
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen bromide.
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
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 mea	asures
	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified 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".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source o ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify author	ritios if product optors cowors or public waters
	nites il product enters sewers of public waters.
6.3. Methods and material for containn	
6.3. Methods and material for containn For containment	nent and cleaning up
6.3. Methods and material for containing For containment Methods for cleaning up	 nent and cleaning up Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. 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
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 6.3. Methods and material for container For containment Methods for cleaning up Other information 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, include Technical measures 	 Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. 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. For disposal of solid materials or residues refer to section 13 : "Disposal considerations". Handle empty containers with care because residual vapors are flammable. 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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. 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.

SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	
2-Bromobutene (23074-36-4) DNEL DNEL DNEL	
DNEL DNEL	>=
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	
Physical state	: Liquid
Color	No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: -133.4 °C
Freezing point	: No data available
Boiling point	: 80.3 - 80.5 °C (at 1013.25 hPa)
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
Specific gravity / density	: 1.3209 g/cm ³ (at 15 °C)
Molecular mass	: 135.00 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	: 1.453 (@ 20 °C)

10.1. Reactivity

No additional information available

10.2. **Chemical stability**

The product is stable at normal handling and storage conditions.

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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

Alkali metals. Finely divided metals (Al, Mg, Zn). 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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.
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
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.

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

No additional information available

SECTION 13: Disposal considera	tions
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.
Department of Transportation (DOT)	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN2924 Flammable liquids, corrosive, n.o.s., 3, II
UN-No.(DOT)	: UN2924

UN-No.(DOT)

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Proper Shipping Name (DOT)	: Flammable liquids, corrosive, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid 8 - Corrosive
Packing group (DOT)	: II - Medium Danger
Dangerous for the environment	: Yes
Marine pollutant	: Yes
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
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.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2924
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 2924
Proper Shipping Name (IATA)	: Flammable liquid, corrosive, n.o.s.

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Class (IATA)

Packing group (IATA)

: 3 - Flammable Liquids

: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

2-Bromobutene (23074-36-4)

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.

15.2. International regulations

CANADA

2-Bromobutene (23074-36-4)
Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

2-Bromobutene (23074-36-4)

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 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 2	Flammable liquids Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard

NFPA fire hazard

NFPA reactivity

- : 3 Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- : 3 Liquids and solids that can be ignited under almost all ambient conditions.
- : 1 Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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.