

Safety Data Sheet 13009X3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/15/2016 Version: 1.0

SECTION 1: Identification 1.1. Identification	
Product form	: Substance
Substance name	: 9-Bromonon-1-ene
CAS No	: 89359-54-6
Product code	: 1300-9-X3
Formula	: C9H17Br
Synonyms	: Non-8-en-1-yl bromide
Other means of identification	: MFCD09037826
1.2. Relevant identified uses of the su	ubstance 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 safe	ety data 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 - <u>www.synquestlabs.</u>	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance o	
Classification (GHS-US)	
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements	/ initation
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	GHS07 : Warning
Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
<b>o</b> ( )	<ul> <li>Warning</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> </ul>

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
SECTION 3: Composition/informa	ation on ing	redients		
3.1. Substance				
Substance type	: Mono-c	constituent		
Name		Product identifier	%	Classification (GHS-US)
9-Bromonon-1-ene (Main constituent)		(CAS No) 89359-54-6	<= 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	S			
First-aid measures general		of accident or if you feel unwell, seek		3 (
First-aid measures after inhalation	: Remov	possible). Move the affected personne e person to fresh air and keep comfor tion. Get medical advice/attention.	2	
First-aid measures after skin contact	•	with plenty of soap and water. Get med	lical advice/atten	ition.
First-aid measures after eye contact	: Immed	iately flush eyes thoroughly with water t and easy to do. Continue rinsing. Ge	for at least 15 m	ninutes. Remove contact lenses, it
First-aid measures after ingestion		T induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and e	effects, both a	cute and delayed		
4.2. Most important symptoms and e Symptoms/injuries	: The mo	cute and delayed ost important known symptoms and eff d/or in section 11.	ects are describe	ed in the labelling (see section
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Avoid release to the environment. Noti	fy authorities if product enters sewers or public waters.
6.3. Methods and material for o	ontainment 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 section	S
No additional information available	
SECTION 7: Handling and st	brage
7.1. Precautions for safe hand	ing
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 storag	e, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Air sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure contro	ls/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.

<b>SECTION 9: Physical and chemical properties</b>	5
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9.1. Information on basic physical an	d chemical properties		
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
pH	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 100 - 101 °C (@ 15 mm Hg)		
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		
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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 205.14 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

: 1.4675 (@ 20 °C)

SECTION	10: Stability and reactivity
10.1. Re	eactivity
No additiona	al information available
10.2. Ch	nemical stability
The product	is stable at normal handling and storage conditions.
10.3. Po	ossibility of hazardous reactions
No additiona	al information available
10.4. Co	onditions to avoid
Keep away fi	from heat, sparks and flame.
10.5. Inc	compatible materials
Strong oxidiz	zing agents.
10.6. Ha	azardous decomposition products
Under norma	al conditions of storage and use hazardous decomposition products should not be produced. Hazardous decomposition products in case of

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

<b>SECTION 11: Toxicological informat</b>	ion
11.1. Information on toxicological effects	
Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul>
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	
SECTION 12: Ecological information	
12.1. Toxicity	

No additio	nal information available
12.2.	Persistence and degradability
No additio	nal information available
12.3.	Bioaccumulative potential
No additio	nal 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 scrublWaste disposal recommendations: Dispose of contents/container in accordance with licensed collector's sorting instructionAdditional information: 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:	
9-Bromonon-1-ene CAS No 89359-54-6 100%	
This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of and 40 CFR Part 372.	
15.2. International regulations	
CANADA No additional information available	
EU-Regulations No additional information available	
National regulations	
9-Bromonon-1-ene (89359-54-6)	
9-Bromonon-1-ene (89359-54-6) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
9-Bromonon-1-ene (89359-54-6) Listed on the Japanese ENCS (Existing & New Chemical Substances) 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	

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Full tex	t 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		: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard		: 1 - Must be preheated before ignition can occur.
NFPA reactivity		: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability		: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
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.