

# **SAFETY DATA SHEET**

Version 6.6 Revision Date 01/26/2024 Print Date 05/12/2024

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifiers**

	Product Number	:	196223
	Brand	:	Aldrich
1 2	Relevant identified	uses	of the substance or mixture and uses advised against

# Identified uses : Laboratory chemicals, Synthesis of substances

## **1.3** Details of the supplier of the safety data sheet

Company	: Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax	: +1 314 771-5765 : +1 800 325-5052
IUA	

#### 1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315 Reproductive toxicity (Category 2), H361 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Aspiration hazard (Category 1), H304 Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

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Pictogram	
Signal Word	Danger
Hazard Statements H225 H304 H315 H336 H361 H411	Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.
Precautionary Statements	
P201 P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

 Synonyms
 : 9-Methoxy-9-borabicyclo[3.3.1]nonane

 Formula
 : C<sub>9</sub>H<sub>17</sub>BO

 Molecular weight
 : 152.04 g/mol

 Component
 Classification

 Hexanes, isomers
 Flam. Lig. 2; Skin Irrit. 2;

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

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Concentration

>= 70 - < 90

%

Repr. 2; STOT SE 3; Asp.

Tox. 1; Aquatic Chronic 2; H225, H315, H361, H336,

H304, H411



# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides Borane/boron oxides Mixture with combustible ingredients. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

## 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **6.2 Environmental precautions** Do not let product enter drains. Risk of explosion.

# 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

**6.4** Reference to other sections For disposal see section 13.

## SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

# Advice on safe handling

Avoid generation of vapours/aerosols.

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# Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

#### Ingredients with workplace control parameters

Ingredients with		-		
Component	CAS-No.	Value	Control	Basis
			parameters	
Hexanes, isomers	92112-69-	TWA	500 ppm	USA. ACGIH Threshold Limit
	1			Values (TLV)
		STEL	1,000 ppm	USA. ACGIH Threshold Limit
			<i>,</i> ,,	Values (TLV)
		TWA	100 ppm	USA. NIOSH Recommended
			350 mg/m3	Exposure Limits
		С	510 ppm	USA. NIOSH Recommended
			1,800 mg/m3	Exposure Limits
		PEL	500 ppm 1,800 mg/m3	California permissible exposure limits for chemical
				contaminants (Title 8, Article 107)
		STEL	1,000 ppm	California permissible exposure
			3,600 mg/m3	limits for chemical
				contaminants (Title 8, Article
				107)

#### 8.2 Exposure controls

# Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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#### Personal protective equipment

## Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### **Skin protection**

required

## **Body Protection**

Flame retardant antistatic protective clothing.

## **Respiratory protection**

Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

#### **Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

#### **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Form: liquid a) Appearance b) Odor No data available c) Odor Threshold No data available No data available d) pH No data available e) Melting point/freezing point Initial boiling point 94 - 95 °C 201 - 203 °F at 10.66 hPa f) and boiling range g) Flash point -26 °C (-15 °F) - closed cup h) Evaporation rate No data available Flammability (solid, No data available i) gas) Upper/lower No data available j) flammability or explosive limits No data available k) Vapor pressure I) Vapor density No data available 0.716 g/cm3 at 25 °C (77 °F) m) Density

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Relative density No data available

- n) Water solubility No data available
- o) Partition coefficient: No data available n-octanol/water
- p) Autoignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties Not classified as explosive.
- t) Oxidizing properties none
- 9.2 Other safety information No data available

#### **SECTION 10: Stability and reactivity**

# **10.1 Reactivity** Vapors may form explosive mixture with air.

- **10.2 Chemical stability** The product is chemically stable under standard ambient conditions (room temperature) .
- 10.3 Possibility of hazardous reactions No data available
- **10.4 Conditions to avoid** Warming.
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

#### **11.1** Information on toxicological effects

#### **Acute toxicity**

Oral: No data available Inhalation: No data available Dermal: No data available

# Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available Aldrich - 196223

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## **Respiratory or skin sensitization**

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available

# Specific target organ toxicity - single exposure

No data available

#### **Specific target organ toxicity - repeated exposure** No data available

Aspiration hazard

No data available

#### **11.2 Additional Information**

Central nervous system depression, Lung irritation, chest pain, Edema, Headache, Dizziness, Drowsiness, Incoordination., slowed reaction time, slurred speech, giddiness, Unconsciousness, Neurotoxic effects., Prolonged or repeated exposure to skin causes defatting and dermatitis., Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Ingestion may provoke the following symptoms:, Gastrointestinal discomfort To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

# SECTION 12: Ecological information

- 12.1 Toxicity No data available
- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available

# **12.5 Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

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#### **12.6 Endocrine disrupting properties** No data available

**12.7 Other adverse effects** No data available

# SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

#### **SECTION 14: Transport information**

#### DOT (US)

UN number: 1993 Class: 3 Packing group: II Proper shipping name: Flammable liquids, n.o.s. (B-METHOXY-9-BBN) Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### IMDG

UN number: 1993 Class: 3 Packing group: II EMS-No: F-E, S-E Proper shipping name: FLAMMABLE LIQUID, N.O.S. (B-METHOXY-9-BBN)

#### ΙΑΤΑ

UN number: 1993 Class: 3 Packing group: II Proper shipping name: Flammable liquid, n.o.s. (B-METHOXY-9-BBN)

#### **SECTION 15: Regulatory information**

#### SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

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#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components Hexanes, isomers	CAS-No. 92112-69-1	Revision Date 1993-02-16
B-METHOXY-9-BBN	38050-71-4	
New Jersey Right To Know Components Hexanes, isomers	CAS-No.	Dovision Data
	92112-69-1	Revision Date 1993-02-16

#### **SECTION 16: Other information**

#### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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