

# **SAFETY DATA SHEET**

Version 6.5 Revision Date 09/07/2024 Print Date 09/08/2024

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

# **1.1 Product identifiers**

Product name: 5-NonanolProduct Number: 74310Brand: Aldrich

CAS-No. : 623-93-8

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

# 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
Emergency te	lephone	
Emergency Pho	ne # :	800-424-9300 CHEMTREC (USA) +1

nergency 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 4), H227

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

# 2.2 GHS Label elements, including precautionary statements

Aldrich - 74310

1.4

Page 1 of 9



Pictogram	none
Signal Word	Warning
Hazard Statements H227	Combustible liquid.
Precautionary Statements P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235 P501	Store in a well-ventilated place. Keep cool. Dispose of contents/ container to an approved waste disposal plant.

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

# **SECTION 3: Composition/information on ingredients**

L	<b>Substances</b> Synonyms	:	Dibutyl carbinol		
	Formula Molecular weight CAS-No. EC-No.		C <sub>9</sub> H <sub>20</sub> O 144.25 g/mol 623-93-8 210-820-2		
	Component			Classification	Concentration
	Nonan-5-ol				
				Flam. Liq. 4; H227	<= 100 %

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

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

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

#### In case of eye contact

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

Aldrich - 74310

Page 2 of 9



# If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

- **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

# SECTION 5: Firefighting measures

# 5.1 Extinguishing media

**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 Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.
- **5.3** Advice for firefighters In the event of fire, wear self-contained breathing apparatus.

# 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. 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.
- 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 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.

Aldrich - 74310

Page 3 of 9



# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

# 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**

Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions Tightly closed.

# Storage class

Storage class (TRGS 510): 10: Combustible 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**

#### **Control parameters** 8.1

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 **Exposure controls**

# Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

# 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

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

# Splash contact Material: Nature latex/chloroprene

Aldrich - 74310

Page 4 of 9



Minimum layer thickness: 0.6 mm Break through time: 30 min Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Respiratory protection**

Not required; except in case of aerosol formation.

# Control of environmental exposure

Do not let product enter drains.

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

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	195 °C 383 °F
g)	Flash point	77 °C (171 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	0.821 g/mL at 20 °C (68 °F)
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient:	No data available

Aldrich - 74310

Page 5 of 9



n-octanol/water

- p) Autoignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

# **9.2 Other safety information** No data available

# **SECTION 10: Stability and reactivity**

# **10.1 Reactivity**

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

# **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**

Strong heating.

- **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 No data available

# Skin corrosion/irritation

Remarks: No data available

#### **Serious eye damage/eye irritation** Remarks: No data available

Aldrich - 74310

Page 6 of 9



# **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.
- ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- 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 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**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **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

**12.6 Endocrine disrupting properties** No data available

Aldrich - 74310

Page 7 of 9



# 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.

# **SECTION 14: Transport information**

#### DOT (US)

Not dangerous goods

# IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

# Further information

Not classified as dangerous in the meaning of transport regulations.

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

Components		CAS-No.	Component TPQ (lbs)
SARA 311/312 Hazards	:	Fire Hazard	
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed th threshold (De Minimis) reporting levels established b SARA Title III, Section 313.	

# **US State Regulations**

# Massachusetts Right To Know

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

Aldrich - 74310

Page 8 of 9



Pennsylvania Right To Know				
Nonan-5-ol	623-93-8			
New Jersey Right To Know				
Nonan-5-ol	623-93-8			
California Prop. 65				
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.				

# The ingredients of this product are reported in the following inventories:

TSCA

: Product contains substance(s) not listed on TSCA inventory.

# **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# 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.

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com. Version: 6.5 Revision Date: 09/07/2024 Print Date: 09/08/2024

Aldrich - 74310

Page 9 of 9

