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## **SAFETY DATA SHEET**

Version 6.9 Revision Date 04/28/2025 Print Date 04/29/2025

## SECTION 1. IDENTIFICATION

#### **1.1 Product identifiers**

Product name: 1-NaphthaldehydeProduct Number: N109Brand: AldrichCAS-No.: 66-77-3Belevant identified uses of the substance or mixture and

## 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	:	+1 314 771-5765
Fax	:	+1 800 325-5052
Emergency telephone		

## 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**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4

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#### Other hazards

None known.

GHS label elements Hazard pictograms :	•	(!)
Signal Word	:	Warning
Hazard Statements	:	H302 Harmful if swallowed.
Precautionary Statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
		<b>Response:</b> P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
		<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

#### Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
1-Naphthaldehyde	66-77-3*	>= 90 - <= 100	-

\* Indicates that the identifier is a CAS No. Actual concentration is withheld as a trade secret

## **SECTION 4. FIRST AID MEASURES**

General advice	:	Show this material safety data sheet to the doctor in attendance.
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.
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If swallowed	:	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
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
Protection of first-aiders	:	For personal protection see section 8.
Notes to physician	:	No data available

## **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards during fire fighting	:	Combustible.
		Development of hazardous combustion gases or vapours possible in the event of fire.
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	No data available
Further information	:	Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for fire- fighters	:	In the event of fire, wear self-contained breathing apparatus.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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Personal precautions, protective equipment and emergency procedures	:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.
Environmental precautions	:	Do not let product enter drains.
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.

## **SECTION 7. HANDLING AND STORAGE**

For precautions see section 2.2.				
Further information on storage conditions	:	Tightly closed.		
Storage class	:	10, Combustible liquids		
Recommended storage temperature	:	Recommended storage temperature see product label.		

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : No data available

#### **Personal protective equipment**

Respiratory protection	:	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.
Recommended Filter type:	:	Filter type ABEK

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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.

Hand protection Material Break through time Glove thickness Protective index Manufacturer	:	butyl-rubber 480 min 0.7 mm Full contact Butoject® (KCL 898)
Material Break through time Glove thickness Protective index Manufacturer	:	Nitrile rubber 30 min 0.4 mm Splash contact Camatril® (KCL 730 / Aldrich Z677442, Size M)
Remarks	:	This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D- 36124 Eichenzell, Internet: www.kcl.de).
Eye protection	:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Skin and body protection	:	protective clothing
Hygiene measures	:	Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : clear, liquid

Color

: dark yellow

: No data available Odor

Odor Threshold : No data available

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рН	:	7 (68 °F / 20 °C) Concentration: < 1 g/l
Melting point/ range	:	34 - 36 °F / 1 - 2 °C Method: lit.
Boiling point/boiling range	:	320 - 322 °F / 160 - 161 °C (20 hPa) Method: lit.
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	5.39 (Air = 1.0)
Relative density	:	No data available
Density	:	1.15 g/cm3 (77 °F / 25 °C) Method: lit.
Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	662 °F / 350 °C
Decomposition temperature	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Explosive properties Aldrich - N109	:	No data available

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Oxidizing properties	: No data available
Molecular weight	: 156.18 g/mol
Particle characteristics Particle size	: No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	:	Strong oxidizing agents Alkali metals Bases
Conditions to avoid	:	no information available
Incompatible materials	:	No data available
Hazardous decomposition products	:	In the event of fire: see section 5

## SECTION 11. TOXICOLOGICAL INFORMATION

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

#### **Acute toxicity**

LD50 Oral - Rat - 667 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Muscle weakness. Skin and Appendages: Other: Hair. Inhalation: No data available LD50 Dermal - Guinea pig - > 22,900 mg/kg Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis. No data available

#### Skin corrosion/irritation

Remarks: No data available

Serious eye damage/eye irritation Remarks: No data available

**Respiratory or skin sensitization** No data available

#### **Germ cell mutagenicity** No data available

#### Carcinogenicity

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- 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 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**

RTECS: QJ0190000

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

## Components:

#### 1-Naphthaldehyde:

Toxicity to fish	:	Remarks: No data available
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#### Persistence and degradability

#### Components:

#### 1-Naphthaldehyde:

Biodegradability : Remarks: No data available

#### **Bioaccumulative potential**

#### **Components:**

#### 1-Naphthaldehyde:

Bioaccumulation	:	Remarks: No data available
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Mobility in soil	
Components:	
1-Naphthaldehyde:	
Stability in soil	: Remarks: No data available
Other adverse effects	
Components:	
1-Naphthaldehyde: Additional ecological information	: No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

## **Disposal methods**

Waste from residues

: 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**

## **International Regulations**

## IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

## Transport in bulk according to IMO instruments

Not applicable for product as supplied.

## National regulation

#### 49 CFR Road

Not regulated as a dangerous good

Poison Inhalation Hazard : No

#### Special precautions for user

Remarks

: Not classified as dangerous in the meaning of transport regulations.

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## SECTION 15. REGULATORY INFORMATION

## **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## **SARA 302 Extremely Hazardous Substances Threshold Planning Quantity** This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312<br/>Hazards: Acute Health HazardSARA 313: This material does not contain any chemical<br/>components with known CAS numbers that exceed the<br/>threshold (De Minimis) reporting levels established by<br/>SARA Title III, Section 313.

## **US State Regulations**

## Massachusetts Right To Know

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

## Maine Chemicals of High Concern

Product does not contain any listed chemicals

## Vermont Chemicals of High Concern

Product does not contain any listed chemicals

## Washington Chemicals of High Concern

Product does not contain any listed chemicals

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

TSCA : All substances listed as active on the 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**

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response;

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EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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