

# **SAFETY DATA SHEET**

Version 6.6 Revision Date 03/02/2024 Print Date 07/14/2024

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

# **1.1** Product identifiers

	Product name	:	1,4-Dimethoxybenzene
	Product Number Brand CAS-No.	::	W238600 Aldrich 150-78-7
1.2	.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.

527-3887 CHEMTREC (International) 24

# 1.3

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax	-	+1 314 771-5765 +1 800 325-5052
Emergency telephone		
Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703-

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

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

Short-term (acute) aquatic hazard (Category 3), H402

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

Hours/day; 7 Days/week

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

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Pictogram	none
Signal Word	none
Hazard Statements H402	Harmful to aquatic life.
Precautionary Statements P273 P501	Avoid release to the environment. 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**

3.1 Substances	
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Synonyms		: Dimethylhydroquinone Hydroquinone dimethyl ether			
Formula Molecular weight CAS-No. EC-No.	: C <sub>8</sub> H <sub>10</sub> O <sub>2</sub> : 138.16 g/mo : 150-78-7 : 205-771-9	51			
Component		Classification	Concentration		
1,4-Dimethoxybenzene					
		Aquatic Acute 3; H402	<= 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 c

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

#### 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

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

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water 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 Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
- **5.3** Advice for firefighters In the event of fire, wear self-contained breathing apparatus.

# 5.4 Further information

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: Avoid inhalation of dusts. 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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

#### SECTION 7: Handling and storage

**7.1 Precautions for safe handling** For precautions see section 2.2.

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# 7.2 Conditions for safe storage, including any incompatibilities

# Storage conditions

Tightly closed. Dry.

# Storage class

Storage class (TRGS 510): 11: Combustible Solids

# 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** 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**

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).

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

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). Splash contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

# **Respiratory protection**

Recommended Filter type: Filter type P1

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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. required when dusts 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.

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

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Color: white, beige
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 54 - 56 °C (129 - 133 °F) - lit.
f)	Initial boiling point and boiling range	213 °C 415 °F - lit.
g)	Flash point	125 °C (257 °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	< 1 hPa at 20 °C (68 °F)
I)	Vapor density	No data available
m)	Density	1.053 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	0.708 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - soluble
o)	Partition coefficient: n-octanol/water	log Pow: 2.08 at 23 °C (73 °F)
p)	Autoignition temperature	430 °C (806 °F) at 1,000 hPa
q)	Decomposition temperature	No data available

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- r) Viscosity
- No data available
- s) Explosive properties No data available
- t) Oxidizing properties none
- **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. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

#### **10.2** Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# **10.3 Possibility of hazardous reactions** Violent reactions possible with:

Strong oxidizing agents

**10.4 Conditions to avoid** 

Strong heating.

- **10.5 Incompatible materials** No data available
- **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

LD50 Oral - Rat - 3,600 mg/kg Inhalation: No data available Dermal: No data available No data available

## Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation

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(OECD Test Guideline 405)

# **Respiratory or skin sensitization**

Draize Test - Guinea pig Result: Does not cause skin sensitization.

#### Germ cell mutagenicity

No data available Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Species: Mouse

Application Route: Oral Method: OECD Test Guideline 474 Result: negative

#### 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 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: CZ6650000

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

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 117 mg/l - 96 h

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	Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 52 mg/l - 48 h		
	Toxicity to algae	Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 50.5 mg/l - 72 h (OECD Test Guideline 201)		
	Toxicity to fish(Chronic toxicity)	NOEC - Pimephales promelas (fathead minnow) - 16.6 mg/l - 33 d		
12.2	Persistence and deg Biodegradability	gradability aerobic - Exposure time 28 d Result: 81 % - Readily biodegradable. (OECD Test Guideline 301F)		
12.3	2.3 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
- **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.

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

**DOT (US)** Not dangerous goods

**IMDG** Not dangerous goods

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**IATA** Not dangerous goods

#### **Further information**

Not classified as dangerous in the meaning of transport regulations.

# 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

No SARA Hazards

#### **Massachusetts Right To Know Components**

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

#### **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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