

## SAFETY DATA SHEET

Version 9.8 Revision Date 12/02/2024 Print Date 12/03/2024

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

**1.1 Product identifiers** 

Product Number	:	1.88051
Catalogue No.	:	188051
Brand	:	Millipore

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

Identified uses : Reagent for analysis

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

### **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 3), H226

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Reproductive toxicity (Category 1B), H360 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

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

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

D: -+

Pictogram	
Signal Word	Danger
Hazard Statements	
H226	Flammable liquid and vapor.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	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 mist or vapors.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
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.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
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

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

#### 3.2 Mixtures

Component	Classification	Concentration

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1-methoxy-2-propanol					
CAS-No.	107-98-2	Flam. Liq. 3; STOT SE 3;	>= 90 - <=		
EC-No.	203-539-1	H226, H336	100 %		
Index-No.	603-064-00-3				
2-methoxy-1-prop	anol				
CAS-No.	1589-47-5	Flam. Liq. 3; Skin Irrit. 2;	>= 0.1 - < 1		
EC-No.	216-455-5	Eye Dam. 1; Repr. 1B;	%		
Index-No.	603-106-00-0	STOT SE 3; H226, H315,			
		H318, H360, H335			

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.

#### In case of eye contact

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

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

## **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

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

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

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#### 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 at elevated temperatures. 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

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 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

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### 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

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

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Recommended storage temperature see product label.

#### 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	e control parameters
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Common out				Desta
Component	CAS-No.	Value	Control	Basis
			parameters	
1-methoxy-2-	107-98-2	TWA	50 ppm	USA. ACGIH Threshold Limit
propanol				Values (TLV)
propulior				
	Remarks	Not classifi	able as a human	carcinogen
		STEL	100 ppm	USA. ACGIH Threshold Limit
				Values (TLV)
		Not classifi	able as a human	
		ST	150 ppm	USA. NIOSH Recommended
			540 mg/m3	Exposure Limits
		TWA	100 ppm	USA. NIOSH Recommended
			360 mg/m3	Exposure Limits
		PEL	100 ppm	California permissible exposure
			360 mg/m3	limits for chemical
				contaminants (Title 8, Article
				107)
		Skin		
		STEL	150 ppm	California permissible exposure
			540 mg/m3	limits for chemical
				contaminants (Title 8, Article
				107)
		Skin		· · · · · · · · · · · · · · · · · · ·

#### 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

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contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: butyl-rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested:Butoject® (KCL 898)

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: 0.40 mm Break through time: 120 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

#### **Body Protection**

Flame retardant antistatic protective clothing.

#### **Respiratory protection**

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

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

a)	Appearance	Form: liquid Color: colorless
b)	Odor	alcohol-like
c)	Odor Threshold	No data available
d)	рН	ca.7 at 20 °C (68 °F)
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	119 °C 246 °F at 1,013 hPa
g)	Flash point	31.5 °C (88.7 °F) - closed cup - DIN 51755 Part 1 - Information

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refers to the main ingredient.

		-
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 11.5 %(V) - Information refers to the main ingredient. Lower explosion limit: 1.7 %(V) - Information refers to the main ingredient.
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	0.92 g/cm3 at 20 °C (68 °F)
	Relative density	No data available
n)	Water solubility	miscible
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	none
	<b>ner safety informatio</b> data available	n

#### SECTION 10: Stability and reactivity

#### **10.1 Reactivity**

9.2

Formation of peroxides possible. Vapor/air-mixtures are explosive at intense warming.

#### **10.2** Chemical stability

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

#### **10.3** Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents acid halides Acid anhydrides Acid chlorides

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# **10.4 Conditions to avoid** 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

#### Mixture

#### **Acute toxicity**

Acute toxicity estimate Oral - 4,032 mg/kg (Calculation method) Inhalation: No data available Acute toxicity estimate Dermal - 2,510 mg/kg (Calculation method)

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

**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**

May harm the unborn child. May impair fertility.

#### Specific target organ toxicity - single exposure

Mixture may cause drowsiness or dizziness.

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

#### Aspiration hazard

No data available

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#### **11.2 Additional Information**

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

#### Components

#### 1-methoxy-2-propanol

#### **Acute toxicity**

LD50 Oral - Rat - male and female - 4,016 mg/kg (EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)) Symptoms: Nausea, Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. LC50 Inhalation - Rat - 4 h - > 6 mg/l - aerosol Remarks: (IUCLID) Inhalation: Irritating to respiratory system. LD50 Dermal - Rat - male and female - > 2,000 mg/kg (Regulation (EC) No. 440/2008, Annex, B.3)

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (Regulation (EC) No. 440/2008, Annex, B.4)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (Regulation (EC) No. 440/2008, Annex, B.5)

#### Respiratory or skin sensitization

Maximization Test - Guinea pig Result: negative (Regulation (EC) No. 440/2008, Annex, B.6)

#### Germ cell mutagenicity

Test Type: Ames test Test system: Salmonella typhimurium Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Result: negative Method: OECD Test Guideline 474 Species: Mouse - male and female - Bone marrow Result: negative

#### Carcinogenicity

No data available

#### **Reproductive toxicity**

No data available

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#### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness. - Central nervous system Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Acute oral toxicity - Nausea, Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

#### Specific target organ toxicity - repeated exposure

Aspiration hazard

No data available

#### 2-methoxy-1-propanol

#### 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

**Respiratory or skin sensitization** No data available

Germ cell mutagenicity No data available

**Carcinogenicity** No data available

#### **Reproductive toxicity**

Presumed human reproductive toxicant No data available

**Specific target organ toxicity - single exposure** May cause respiratory irritation.

Specific target organ toxicity - repeated exposure No data available

## Aspiration hazard

No data available

#### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Mixture No data available

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	tence and degradat	bility
	<b>umulative potentia</b> a available	Ι
<b>12.4 Mobilit</b> No data	t <b>y in soil</b> a available	
PBT/vP conduct 12.6 Endocr		vailable as chemical safety assessment not required/not
	adverse effects a available	
Compo	onents	
	<b>hoxy-2-propanol</b> oxicity to fish	static test LC50 - Leuciscus idus (Golden orfe) - 6,812 mg/l - 96 h (DIN 38412 part 15)
ar	oxicity to daphnia nd other aquatic overtebrates	static test LC50 - Daphnia magna (Water flea) - 23,300 mg/l - 48 h Remarks: (ECHA)
Тс	oxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - > 1,000 mg/l - 7 d Remarks: (ECHA)

#### 2-methoxy-1-propanol

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.

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

#### DOT (US)

UN number: 3092 Class: 3 Packing group: III Proper shipping name: 1-Methoxy-2-propanol Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### IMDG

UN number: 3092 Class: 3 Packing group: III Proper shipping name: 1-METHOXY-2-PROPANOL EMS-No: F-E, S-D

#### ΙΑΤΑ

UN number: 3092 Class: 3 Packing group: III Proper shipping name: 1-Methoxy-2-propanol

#### 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 313	:	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.

#### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

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#### **US State Regulations**

Massachusetts Right To Know 1-methoxy-2-propanol	107-98-2	
Pennsylvania Right To Know 1-methoxy-2-propanol	107-98-2	
Maine Chemicals of High Concern water	7732-18-5	
Vermont Chemicals of High Concern water	7732-18-5	
Washington Chemicals of High Concern water	7732-18-5	
The ingredients of this product are reported in the following inventories:		

TSCA : A

: 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**

#### **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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