

# SAFETY DATA SHEET

Version 6.6 Revision Date 03/02/2024 Print Date 05/12/2024

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

#### 1.1 Product identifiers

Product name : Tetramethylammonium hydroxide solution 25

wt. % in methanol

Product Number : 334901

Brand : Sigma-Aldrich

### 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

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 Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 2), H310

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Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 1), Eyes, Central nervous system, H370

Specific target organ toxicity - repeated exposure, Dermal (Category 1), Liver, thymus, H372

Short-term (acute) aquatic hazard (Category 3), H402 Long-term (chronic) aquatic hazard (Category 3), H412

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

# 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard Statements	
H226	Flammable liquid and vapor.
H300 + H310	Fatal if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H370	Causes damage to organs (Eyes, Central nervous system).
H372	Causes damage to organs (Liver, thymus) through prolonged or
	repeated exposure in contact with skin.
H412	Harmful to aquatic life with long lasting effects.
Precautionary Statements	
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.
P260	Do not breathe mist or vapors.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
1301 1 1310 1 1330	Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P350 + P310	IF ON SKIN: Gently wash with plenty of soap and water.
	Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated
-	clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + IF IN EYES: Rinse cautiously with water for several minutes.

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P310	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
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.
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
Methanol			
CAS-No. EC-No. Index-No. Registration number	67-56-1 200-659-6 603-001-00-X 01-2119433307-44- XXXX	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H370 Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371;	>= 70 - < 90 %
Tetramethylammoni	um hydroxide		
CAS-No. EC-No.	75-59-2 200-882-9	Acute Tox. 2; Acute Tox. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 1; STOT RE 1; Aquatic Acute 2; Aquatic Chronic 2; H300, H310, H314, H318, H370, H372, H401, H411 Concentration limits: >= 25 %: Acute Tox. 1, H310; 6.25 - < 25 %: Acute Tox. 2, H310; > 1.25 - < 6.25 %: Acute Tox. 3, H311; 0.625 - 1.25 %: Acute Tox. 4, H312;	>= 20 - < 25 %

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**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

#### In case of skin contact

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

### In case of eye contact

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

#### If swallowed

After swallowing: fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour). Do not attempt to neutralise.

# 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

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

Nitrogen oxides (NOx)

Mixture with combustible ingredients.

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

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

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#### 5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. 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

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

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. Keep locked up or in an area accessible only to qualified or authorized persons.

Air sensitive. hygroscopic Store under inert gas.

# **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

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# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control	Basis			
component	C/10 1101	Value	parameters	Busis			
Methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)			
	Remarks	Danger of cutaneous absorption					
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)			
		Danger of cutaneous absorption					
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits			
		Potential f	or dermal absor	ption			
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits			
		Potential f	Potential for dermal absorption				
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants			
		PEL	200 ppm 260 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)			
		Skin					
		С	1,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)			
		Skin					
		STEL	250 ppm 325 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)			
		Skin		<del> '</del> /			

**Biological occupational exposure limits** 

biological occupational exposure inities					
Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Methanol	67-56-1	Methanol	15 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (	(As soon as	possible after exp	oosure ceases)

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# 8.2 Exposure controls

### **Appropriate engineering controls**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face 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). Tightly fitting safety goggles

#### 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: butyl-rubber

Minimum layer thickness: 0.3 mm Break through time: 480 min

Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 30 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, 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.

### **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.

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# **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 No data available f) and boiling range 27 °C (81 °F) - closed cup g) Flash point h) Evaporation rate No data available Flammability (solid, No data available i) gas) Upper/lower No data available j) flammability or explosive limits k) Vapor pressure No data available Vapor density No data available m) Density No data available Relative density No data available No data available n) Water solubility o) Partition coefficient: No data available n-octanol/water p) Autoignition No data available temperature No data available q) Decomposition temperature Viscosity No data available r) Explosive properties Not classified as explosive.

none

#### 9.2 Other safety information

Oxidizing properties

No data available

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

#### 10.1 Reactivity

Vapor/air-mixtures are explosive at intense warming.

## 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

Heating.

### 10.5 Incompatible materials

Acids, Oxidizing agents, Alkali metals, Acid chlorides, Acid anhydrides, Reducing agents, acids, Halogens, Aluminum

### 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**

Oral: No data available

Acute toxicity estimate Oral - 20.41 mg/kg

(Calculation method)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of

perforation of the esophagus and the stomach.

Inhalation: No data available

Acute toxicity estimate Inhalation - 4 h - 4.43 mg/l - vapor(Calculation method)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of

respiratory tract

Dermal: No data available

No data available

### Skin corrosion/irritation

Remarks: No data available Remarks: Mixture causes burns.

### Serious eye damage/eye irritation

Remarks: No data available

Remarks: Mixture causes serious eye damage.

Risk of blindness!

### Respiratory or skin sensitization

No data available

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# 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 No data available

### Specific target organ toxicity - single exposure

Remarks: No data available

Mixture causes damage to organs. - Eyes, Central nervous system

### Specific target organ toxicity - repeated exposure

Remarks: No data available

Mixture causes damage to organs through prolonged or repeated exposure.

- Liver, thymus

### **Aspiration hazard**

No data available

#### 11.2 Additional Information

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

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

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

### **Components**

#### **Methanol**

### **Acute toxicity**

Acute toxicity estimate Oral - 100.1 mg/kg (Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table

3.1/3.2)

Symptoms: Nausea, Vomiting

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Acute toxicity estimate Inhalation - 4 h - 3.1 mg/l - vapor

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table

3.1/3.2)

Symptoms: Irritation symptoms in the respiratory tract.

Acute toxicity estimate Dermal - 300.1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table

3.1/3.2)

### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation Remarks: (ECHA)

Remarks: Drying-out effect resulting in rough and chapped skin.

### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

Remarks: (ECHA)

### Respiratory or skin sensitization

Sensitisation test: - Guinea pig

Result: negative

(OECD Test Guideline 406)

# **Germ cell mutagenicity**

Based on available data the classification criteria are not met.

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

Method: OECD Test Guideline 474

Species: Mouse - male and female - Bone marrow

Result: negative

# Carcinogenicity

Did not show carcinogenic effects in animal experiments.

### Reproductive toxicity

Based on available data the classification criteria are not met.

# Specific target organ toxicity - single exposure

Causes damage to organs. - Eyes, Central nervous system

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Acute oral toxicity - Nausea, Vomiting

Acute inhalation toxicity - Irritation symptoms in the respiratory tract.

### Specific target organ toxicity - repeated exposure

No data available

#### **Aspiration hazard**

No data available

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### Tetramethylammonium hydroxide

### **Acute toxicity**

LD50 Oral - Rat - male and female - 12.5 - 125 mg/kg

(OECD Test Guideline 401) Inhalation: No data available

LD50 Dermal - Rat - male and female - > 12.5 - < 50 mg/kg

(OECD Test Guideline 402)

Symptoms: Causes severe systemic effects after dermal exposure which could lead

to death.

Remarks: Rapid absorption.

### Skin corrosion/irritation

Skin - Rabbit

Result: Corrosive - 4 h (OECD Test Guideline 404)

# Serious eye damage/eye irritation

Remarks: Causes serious eye damage.

Risk of blindness!

### Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

Test Type: Ames test

Test system: S. typhimurium

Result: negative

Carcinogenicity

No data available

# Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

Causes damage to organs. - Central nervous system

Acute dermal toxicity - Causes severe systemic effects after dermal exposure which could lead to death.

# Specific target organ toxicity - repeated exposure

Skin contact - Causes damage to organs through prolonged or repeated exposure. - Liver, thymus

# **Aspiration hazard**

No data available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

#### **Mixture**

No data available

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# 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

#### 12.7 Other adverse effects

No data available

### **Components**

#### Methanol

Toxicity to fish flow-through test LC50 - Lepomis macrochirus (Bluegill) -

15,400.0 mg/l - 96 h

(US-EPA)

Toxicity to daphnia

and other aquatic invertebrates

semi-static test EC50 - Daphnia magna (Water flea) - 18,260

mq/l - 96 h

(OECD Test Guideline 202)

static test ErC50 - Pseudokirchneriella subcapitata (green Toxicity to algae

algae) - ca. 22,000.0 mg/l - 96 h

(OECD Test Guideline 201)

static test IC50 - activated sludge - > 1,000 mg/l - 3 h Toxicity to bacteria

(OECD Test Guideline 209)

Toxicity to

NOEC - Oryzias latipes (Orange-red killifish) - 7,900 mg/l - 200 fish(Chronic toxicity)

Remarks: (External MSDS)

# Tetramethylammonium hydroxide

Toxicity to fish flow-through test LC50 - Pimephales pomoxis - 462 mg/l - 96

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic

invertebrates

static test EC50 - Daphnia magna (Water flea) - 3 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Raphidocelis subcapitata (freshwater green

> alga) - 96.3 mg/l - 72 h (OECD Test Guideline 201)

static test NOEC - Raphidocelis subcapitata (freshwater green

alga) - 6.25 mg/l - 72 h (OECD Test Guideline 201)

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Toxicity to daphnia semi-static test NOEC - Daphnia magna (Water flea) - 0.025 and other aquatic mg/l - 11 d invertebrates(Chronic (US-EPA) toxicity)

### **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)

UN number: 3286 Class: 3 (6.1, 8) Packing group: II

Proper shipping name: Flammable liquid, toxic, corrosive, n.o.s. (Tetramethylammonium

hydroxide, Methanol) Reportable Quantity (RQ):

Poison Inhalation Hazard: No

#### **IMDG**

UN number: 3286 Class: 3 (6.1, 8) Packing group: II EMS-No: F-E, S-C Proper shipping name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (Tetramethylammonium hydroxide, Methanol)

#### **IATA**

UN number: 3286 Class: 3 (6.1, 8) Packing group: II

Proper shipping name: Flammable liquid, toxic, corrosive, n.o.s. (Tetramethylammonium

hydroxide, Methanol)

# **SECTION 15: Regulatory information**

### **SARA 302 Components**

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

### **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Methanol CAS-No. Revision Date 67-56-1 2007-07-01

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### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

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

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

7732-18-5

water

# Pennsylvania Right To Know Components

Methanol	CAS-No.	Revision Date
	67-56-1	2007-07-01

### **California Prop. 65 Components**

, which is/are known to the State of California to CAS-No. Revision Date cause birth defects or other reproductive harm. For 67-56-1 2012-03-16 more information go to

www.P65Warnings.ca.gov.Methanol

#### **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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