# SAFETY DATA SHEET

Version 5.5 Revision Date 05/23/2016 Print Date 05/17/2017

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Mineral oil

Product Number : M1180

Brand : Sigma-Aldrich

Product Use : For laboratory research purposes.

Supplier : Sigma-Aldrich Canada Co. Manufactur : Sigma-Aldrich Corporation

2149 Winston Park Drive er 3050 Spruce St.

OAKVILLE ON L6H 6J8 St. Louis, Missouri 63103

USA

CANADA

Telephone : +1 9058299500 Fax : +1 9058299292

Emergency Phone # (For

both supplier and

manufacturer)
Preparation Information : Sigma-Aldrich Corporation

Product Safety - Americas Region

+1-703-527-3887 (CHEMTREC)

1-800-521-8956

## 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

#### WHMIS Classification

Not Rated

Not a hazardous substance or mixture.

**HMIS Classification** 

Health hazard: 0 Flammability: 1 Physical hazards: 0

**Potential Health Effects** 

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation. **Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** May be harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
Mineral oil			
8042-47-5	232-455-8	-	<=100%

### 4. FIRST AID MEASURES

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

## In case of skin contact

Wash off with soap and plenty of water.

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## In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIREFIGHTING MEASURES

# Conditions of flammability

Not flammable or combustible.

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# **Hazardous combustion products**

## Explosion data - sensitivity to mechanical impact

No data available

# Explosion data - sensitivity to static discharge

No data available

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid breathing vapours, mist or gas.

# **Environmental precautions**

No special environmental precautions required.

### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis		
Mineral oil	8042-47-5	TWA	0.200000 mg/m3	Canada. British Columbia OEL		
Remarks		IARC '1' applies to substances categorized as carcinogenic to humans, and used when there is sufficient evidence of carcinogenicity in humans.				
		TWA	1.000000 mg/m3	Canada. British Columbia OEL		
		TWA	1.000000 mg/m3	Canada. British Columbia OEL		
		TWA	5.000000 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)		
		STEL	10.000000 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)		
		TWAEV	5.000000 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants		
		STEV	10.000000	Québec. Regulation respecting occupational health		

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	mg/m3	and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
TWA	1 mg/m3	Canada. British Columbia OEL
TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

### Personal protective equipment

### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Hand 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: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 30 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, 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 CE 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.

### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

General industrial hygiene practice.

# Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

# Appearance

Form liquid
Colour colourless

Safety data

pH No data available

Melting Melting point/range: ca.-14.99 °C (5.02 °F) at ca.1,013 hPa (760 mmHg)

point/freezing point

Boiling point 218 - 800 °C (424 - 1,472 °F) at ca.1,013 hPa (760 mmHg)

Flash point > 112 °C (> 234 °F) - closed cup - ISO 2719

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Ignition temperature No data available

Auto-ignition 325 - 355 °C (617 - 671

temperature

325 - 355 °C (617 - 671 °F) at 1,013.25 hPa (760.00 mmHg)

Lower explosion limit No data available Upper explosion limit No data available

Vapour pressure <= 0.0001 hPa (<= 0.0001 mmHg) at ca.20 °C (68 °F) - OECD Test Guideline 104

Density 0.81 - 0.89 g/cm3 at 15 °C (59 °F) -

Water solubility No data available Partition coefficient: No data available

n-octanol/water

Viscosity, kinematic > 20.5 mm2/s at 40 °C (104 °F)

Relative vapour

density

No data available

Odour odourless

Odour Threshold No data available Evaporation rate No data available

## 10. STABILITY AND REACTIVITY

#### Chemical stability

Stable under recommended storage conditions.

## Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Materials to avoid

Strong oxidizing agents

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

### 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

## Oral LD50

LD50 Oral - Rat - male and female - > 5,000 mg/kg

#### Inhalation LC50

LC50 Inhalation - Rat - male and female - 4 h - > 5 mg/l

# **Dermal LD50**

LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg

## Other information on acute toxicity

No data available

#### Skin corrosion/irritation

Skin - Rabbit - No skin irritation - OECD Test Guideline 404

### Serious eye damage/eye irritation

Eyes - Rabbit - No eye irritation - OECD Test Guideline 405

### Respiratory or skin sensitisation

Buehler Test - Guinea pig - OECD Test Guideline 406 - Did not cause sensitisation on laboratory animals.

## Germ cell mutagenicity

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Genotoxicity in vitro - in vitro assay - S. typhimurium - Metabolic activation - negative

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

# Reproductive toxicity

No data available

## **Teratogenicity**

No data available

# Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

# Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

## **Aspiration hazard**

No data available

#### Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

### Signs and Symptoms of Exposure

Aspiration may lead to:, lipid pneumonia, Effects due to ingestion may include:, laxative effect, Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# Synergistic effects

No data available

#### Additional Information

Repeated dose toxicity - Rat - female - Oral - No observed adverse effect level - 1,600 mg/kg - Lowest observed adverse effect level - 160 mg/kg RTECS: Not available

### 12. ECOLOGICAL INFORMATION

### **Toxicity**

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia static test LC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

and other aquatic Method: OECD Test Guideline 202

invertebrates

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

# PBT and vPvB assessment

No data available

## Other adverse effects

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### 13. DISPOSAL CONSIDERATIONS

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

#### 15. REGULATORY INFORMATION

#### WHMIS Classification

Not Rated

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### **16. OTHER INFORMATION**

#### **Further information**

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