# SIGMA-ALDRICH

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## SAFETY DATA SHEET

Version 5.7 Revision Date 05/23/2016 Print Date 04/30/2018

1. PRODUCT AND COMPANY IDENTIFICATION					
Product name	:	Mineral oil			
Product Number Brand Product Use	:	330779 Sigma-Aldrich For laboratory research purposes.			
Supplier	:	Sigma-Aldrich Canada Co. 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA	Manufactur er	<ul> <li>Sigma-Aldrich Corporation</li> <li>3050 Spruce St.</li> <li>St. Louis, Missouri 63103</li> <li>USA</li> </ul>	
Telephone	:	+1 9058299500			
Fax	:	+1 9058299292			
Emergency Phone # (Fo both supplier and manufacturer)	or :	+1-703-527-3887 (CHEMTREC)			
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 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.

## 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			ances categorized rcinogenicity in hun	as carcinogenic to humans, and used when there is nans.
		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

		mg/m3	and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
Т	ΓWA	1 mg/m3	Canada. British Columbia OEL
Т	ΓWA	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
Colou	ır	colourless
Safety d	ata	
pН		No data available
Meltin point/	ig freezing point	Melting point/range: ca14.99 °C (5.02 °F) at ca.1,013 hPa (760 mmHg)
Boilin	g 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

Ignition temperature	No data available
Auto-ignition 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	0.833 g/mL at 25 °C (77 °F) -
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
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

#### 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: PY8047000

## 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 and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h Method: OECD Test Guideline 202

#### 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

## **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

## ΙΑΤΑ

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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