

8-29-2022: File reviewed, more current MSDS/SDS not available. JMC

Section 1 - Identification

Product Name <u>Microscope Immersion Oil</u>

Product Code ALPM2000, ALPM3000, ALPM4000, ALPM5000, ALPM6000, ALPM2004, ALPM3004,

ALPM4004, ALPM5004, ALPM6004

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Recommended Use Laboratory chemicals.

Section 2 - Hazard(s) Identification

Classification under Safe Work Australia

Classified as not hazardous according to criteria of Safe Work Australia

Physical hazards

E-mail address

No hazards identified

Health hazards

No hazards identified

Environmental hazards

No hazards identified

<u>Label Elements</u> None required

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Other information

No information available

Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %		
White mineral oil	8042-47-5	52 - 55		
Hydrogenated terphenyls	61788-32-7	27 - 33		
Polybutene	9003-29-6	7 - 10		
Polyphenyls, quater- and higher, partially hydrogenated	68956-74-1	3 - 6		
Terphenyls	26140-60-3	1 - 4		

AUS-001927 Version 1 08-Feb-2017 Page 1/7

Section 4 - First Aid Measures

Inhalation Move to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Protection of First-aidersNo special precautions required.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms/effects No information available.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Water spray. Dry chemical. Carbon dioxide (CO₂). alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

Hazardous Decomposition Products

Carbon monoxide (CO), Carbon dioxide (CO2).

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Ensure adequate ventilation.

Environmental Precautions

See Section 12 for additional ecological information. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Ensure adequate ventilation.

Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

AUS-001927 Version 1 08-Feb-2017 Page 2/7

Exposure limits

ACGIH - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace. **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **DE** - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany			
White mineral oil					TWA: 5 mg/m³ (8 Stunden). AGW - exposure factor 4 TWA: 5 mg/m³ (8 Stunden). MAK Höhepunkt: 20 mg/m³			
Hydrogenated terphenyls		TWA: 0.5 ppm TWA: 4.9 mg/m ³	TWA: 0.5 ppm					
Terphenyls		Ceiling: 0.5 ppm Ceiling: 4.7 mg/m ³	Ceiling: 5 mg/m ³	STEL: 0.5 ppm 15 min STEL: 4.8 mg/m ³ 15 min				

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Exposure Controls Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection Safety glasses with side-shields (Australian/New Zealand Standard AS/NZS 1337 - Eye

protectors for Industrial applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Disposable gloves	See manufacturers	-	AS/NZS 2161.1	(minimum requirement)
	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts. abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices

Recommended Filter type: Particle filter (or AUS/NZ equivalent)

Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system. Local authorities should be advised if significant spillages cannot be contained.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

AUS-001927 Version 1 08-Feb-2017 Page 3 / 7

Method - No information available

Liquid

(Air = 1.0)

Liquid

Appearance Light yellow **Physical State** Liquid

Odor Odorless

Odor Threshold No data available Ha Not applicable Melting Point/Range No data available **Softening Point** No data available **Boiling Point/Range** No information available

Flash Point 148.89 °C / 300 °F

Evaporation Rate No data available

Flammability (solid,gas) **Explosion Limits** No data available

Vapor Pressure No data available

Vapor Density No data available

Not applicable

Specific Gravity / Density 0.92

Bulk Density Not applicable

No information available Water Solubility Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

log Pow Component

White mineral oil 6

No data available **Autoignition Temperature** No data available **Decomposition Temperature Viscosity** No data available

Explosive Properties No information available **Oxidizing Properties** No information available

Other information

1.5149 - 1.5151 Refractive index

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products, Excess heat.

Strong oxidizing agents. **Incompatible Materials**

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO2).

Hazardous Polymerization No information available.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product Information (a) acute toxicity;

> Based on available data, the classification criteria are not met Oral Based on available data, the classification criteria are not met **Dermal** Inhalation Based on available data, the classification criteria are not met

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
White mineral oil	>5000 mg/kg (Rat)	>3000 mg/kg (Rabbit)	
Hydrogenated terphenyls	LD50 = 17500 mg/kg (Rat)	LD50 = 6800 mg/kg (Rabbit)	

AUS-001927 Page 4/7 Version 1 08-Feb-2017

Terphenyls	LD50 > 12500 mg/kg (Rabbit)	

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available
 (h) STOT-single exposure; No data available
 (i) STOT-repeated exposure; No data available

Target Organs None known.
(j) aspiration hazard; No data available

Symptoms / effects,both acute and No information available

delayed

Section 12 - Ecological Information

Ecotoxicity effectsContains a substance which is:. Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
White mineral oil	LC50: > 10000 mg/L, 96h (Lepomis macrochirus)			
Hydrogenated terphenyls	LC50: > 0.53 mg/L, 96h static (Oncorhynchus mykiss) LC50: > 0.53 mg/L, 96h static (Lepomis macrochirus) LC50: > 0.53 mg/L, 96h static (Pimephales promelas)	48h (Daphnia magna)	EC50: > 0.53 mg/L, 96h (Pseudokirchneriella subcapitata)	
Terphenyls	LC50: > 0.11 mg/L, 96h static (Pimephales promelas) LC50: > 0.11 mg/L, 96h static (Lepomis macrochirus) LC50: > 0.11 mg/L, 96h static (Oncorhynchus mykiss)	(Daphnia magna)	EC50: = 0.02 mg/L, 96h (Pseudokirchneriella subcapitata)	

Persistence and Degradability

No information available

Degradation in sewage treatment plant Bioaccumulative Potential

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

No information available

Component	log Pow	Bioconcentration factor (BCF)
White mineral oil	6	No data available

AUS-001927 Version 1 08-Feb-2017 Page 5 / 7

Mobility

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

Waste from Residues / Unused **Products**

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

Other Information

Chemical wastes should be disposed through a licensed commercial waste collection service. Do not dispose of waste into sewer.

Section 14 - Transport Information

IMDG/IMO Not regulated

ADG Not regulated

Not regulated IATA

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

X = listedInternational Inventories

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
White mineral oil	Х	Х	232-455- 8	-	Х	Х	-	Х	-	Х	Х
Hydrogenated terphenyls	Х	Х	262-967- 7	-	Х	Х	-	Х	Х	Х	Х
Polybutene	Χ	Х	-	-	Х	Х	-	Χ	Х	Х	Χ
Polyphenyls, quater- and higher, partially hydrogenated	Х	Х	273-316- 1	-	Х	Х	-	Х	-	Х	-
Terphenyls	Х	Х	247-477- 3	-	Х	Х	-	Х	Х	Х	Х

Standard for the Uniform Scheduling of Medicines and **Poisons**

Not Scheduled

requirements

Prohibition or notification/licensing Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

Section 16 - Other Information

Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

AUS-001927 08-Feb-2017 Page 6/7 Version 1

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air

Transport Association

MARPOL - International Convention for the Prevention of Pollution from

NZS 5433:2012 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit **DNEL** - Derived No Effect Level

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

VOC - Volatile Organic Compounds

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

PNEC - Predicted No Effect Concentration

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

ADG Australian Code for the Transport of Dangerous Goods by Road

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50% ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Creation Date 10-Nov-2014 **Revision Date** 08-Feb-2017 **Revision Summary** Update to Format.

This safety data sheet complies with the requirements of Safe Work Australia WHS Regulation

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

AUS-001927 Version 1 08-Feb-2017 Page 7/7