

# SAFETY DATA SHEET

## Section 1. Identification of the material and the supplier

Product: IMMOIL-8CC\_IMMOIL-500CC  
Product Use: Microscopes-Immersion Liquids for Light Microscopy

New Zealand Supplier: **Olympus New Zealand Ltd**  
Address: 28 Corinthian Drive Albany, Auckland  
Telephone: 0580 6596 787  
**Emergency No: 0800 764 766 (National Poison Centre)**

Manufacturer: OLYMPUS CORPORATION  
Shinjuku Monolith , 3-1 Nishi-Shinjuku 2-chome  
Shinjuku-ku , Tokyo 163-0914, Japan

Date of SDS Preparation: 23 Jun 2021

## Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

**EPA Approval Code:**  
**Surface Coatings and Colourants (subsidiary) hazard – HSR002670**

### Pictograms



Irritant

Chronic

Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.9B	H371	May cause damage to organs.	STOT SE 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2

### Prevention Code      Prevention Statement

P103	Read label before use.
P104	Read safety data sheet before use
P260	Do not breathe fumes or vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release into the environment.
P280	Wear protective clothing.

### Response Code      Response Statement

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P314	Get medical advice/attention if you feel unwell.
P363	Wash contaminated clothing before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

**Storage Code                      Storage Statement**

P405	Store locked up.
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**Disposal Code                      Disposal Statement**

P501	Dispose of according to Local Regulations or Authorities
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**Section 3.                      Composition / Information on Ingredients**

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Benzene, 1,2-dimethyl-4-(1-phenylethyl)-	15.0	6196-95-8
Benzene, 2,4-dimethyl-1-(1-phenylethyl)-	12.0	6165-52-2
Benzene, 1,4-dimethyl-2-(1-phenylethyl)-	7.0	6165-51-1
Benzene, ethyl(phenylethyl)-	6.0	64800-83-5

**Section 4.                      First Aid Measures**

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
If Inhaled	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

Symptoms:

<b>Ingestion:</b>	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Inhalation:</b>	May cause irritation to the respiratory tract.
<b>Skin:</b>	May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.
<b>Eye:</b>	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
<b>Chronic:</b>	May cause damage to organs. May cause damage to organs through prolonged or repeated exposure.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable
<b>Hazards from products</b>	Products of combustion may include, and are not limited to: oxides of carbon.
<b>Suitable Extinguishing media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder. Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.
<b>Precautions for firefighters and special protective clothing</b>	Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water spray.
<b>HAZCHEM CODE</b>	<b>None allocated.</b>

## Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### Environmental precautions

Prevent entry to sewers and public waters.

### Methods and material for containment and cleaning up

Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. Sweep or shovel spills into appropriate container for disposal. Provide ventilation. Never return spills in original containers for possible later re-use. Dispose according to Section 13.

## Section 7. Handling and Storage

### Handling

- Spilled material may present a slipping hazard.
- Avoid contact with skin and eyes.
- Do not breathe dust, fume, gas, mist, spray, vapors.
- Do not swallow.
- Handle and open container with care.
- When using do not eat, drink or smoke.
- Wear personal protective equipment.
- Take off contaminated clothing and wash it before reuse.
- Contaminated work clothing should not be allowed out of the workplace.
- Wash hands, forearms and face thoroughly after handling.
- Avoid release into the environment.

### Storage

- Keep out of the reach of children.
- Keep container tightly closed.
- Store in a dry, cool and well ventilated place.
- Store locked up.
- Store away from incompatible materials listed in Section 10.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Product Name: IMMOIL-8CC\_IMOIL\_500CC  
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**Substance****TWA**  
ppm mg/m<sup>3</sup>**STEL**  
ppm mg/m<sup>3</sup>

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

**Engineering Controls**

Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

**Personal Protection Equipment**

<b>Eyes</b>	Safety glasses or goggles are recommended when using product.
<b>Hands</b>	Wear suitable gloves resistant to chemical penetration
<b>Skin</b>	Wear suitable protective clothing.
<b>Respiratory</b>	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	<200 °C
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	154 °C Cleveland open cup
<b>Flammability</b>	Not flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Relative Vapour Density</b>	<1
<b>Relative Density</b>	0.918 g/cm <sup>3</sup> @ 19°C
<b>Water Solubility</b>	Insoluble
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	<300°C
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

**Section 10. Stability and Reactivity**

Product Name: IMMOIL-8CC\_IMOIL\_500CC  
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<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reactions known under normal conditions of use.
<b>Conditions to Avoid</b>	High temperatures and incompatible substances.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	May include, and are not limited to: oxides of carbon.

**Section 11 Toxicological Information**

**Acute Effects:**

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.
<b>Skin</b>	May cause an allergic skin reaction.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	May cause damage to organs through single exposure.
<b>STOT/RE</b>	May cause damage to organs through repeated or prolonged exposure.

**Individual component information:**

<b>Benzene, 1,4-dimethyl-2-(1-phenylethyl)- (6165-51-1)</b>	
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

**Section 12. Ecotoxicological Information**

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

Do not allow to enter waterways.

**Section 13. Disposal Considerations**

**Disposal Method:**

Dispose in a safe manner according to Local Regulations.

**Precautions or methods to avoid:** Do not flush to sewer or allow to enter waterways.

## Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012



### Road, Rail, Sea and Air Transport

<b>UN No</b>	3082
<b>Class - Primary</b>	9
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Benzene, 1,2-dimethyl-4-(1-phenylethyl)-)
<b>Marine Pollutant</b>	Yes
<b>Special Provisions</b>	If the product's individual container is below 5L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

## Section 15 Regulatory Information

EPA Approval No: Surface Coatings and Colourants (subsidiary) hazard – HSR002670  
 HSNO Classification: 6.5B, 6.9B, 9.1B

HSNO Controls:

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000 L (9.1B)
Emergency Response Plan	1000 L (9.1B)
Secondary Containment	1000 L (9.1B)
Restriction of Use	Only use for the intended purpose.

## Section 16 Other Information

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level

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## References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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