

IMMOIL-8CC_IMMOIL-500CC#2

Safety Data Sheet

According to ICOP 2014

Issue date: 23/6/2021

Revision date: 23/6/2021

Version: 1.0

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Product form : Mixture
Product name : IMMOIL-8CC_IMMOIL-500CC#2

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Microscopes-Immersion Liquids for Light Microscopy

1.4. Supplier's details

Manufacturer

OLYMPUS CORPORATION
Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku
163-0914 Tokyo - Japan
T +81-120-58-0414 / +81-3-3340-2111
F +81-3-6901-4251

Distributor

MATRIX OPTICS (M) SDN BHD
No 6, Jalan SS25/22 Taman Mayang 47301 Petaling Jaya Selangor
Darul Ehsan
Malaysia
T 603-7803-7933

1.5. Emergency phone number

Emergency number : +44-1865-407333 (Carechem24 English)

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2014)

Skin Sens. 1 H317
Aquatic Chronic 2 H411

2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2014)

Hazard pictograms (GHS MY) :



Signal word (GHS MY) :

Warning

Hazard statements (GHS MY) :

H317 - May cause an allergic skin reaction
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS MY) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Unknown acute toxicity (GHS MY) :

27% of the mixture consists of ingredient(s) of unknown acute toxicity.

Unknown hazards to the aquatic environment (GHS MY) :

Contains 72 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Polyisobutylene	(CAS-No.) 9003-27-4	60.0

IMMOIL-8CC_IMMOIL-500CC#2

Safety Data Sheet

According to ICOP 2014

Name	Product identifier	%
Benzene, 1,2-dimethyl-4-(1-phenylethyl)-	(CAS-No.) 6196-95-8	15.0
Benzene, 2,4-dimethyl-1-(1-phenylethyl)-	(CAS-No.) 6165-52-2	12.0
Benzene, 1,4-dimethyl-2-(1-phenylethyl)-	(CAS-No.) 6165-51-1	7.0
Benzene, ethyl(phenylethyl)-	(CAS-No.) 64800-83-5	6.0

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : 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.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

- Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.
- Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

IMMOIL-8CC_IMMOIL-500CC#2

Safety Data Sheet

According to ICOP 2014

6.3. Methods and material for containment and cleaning up

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. Sweep or shovel spills into appropriate container for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Store tightly closed in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration

Eye protection:

Safety glasses or goggles are recommended when using product.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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.

- Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

- Physical state : Liquid
- Appearance : Colourless liquid.
- Colour : Colourless
- Odour : No data available
- Odour threshold : No data available
- pH : No data available
- Melting point, Freezing point : No data available
- Boiling point : < 200 °C
- Flash point : 154 °C (Cleveland Open Cup)
- Auto-ignition temperature : < 300 °C
- Flammability (solid, gas) : Not flammable
- Vapour pressure : No data available
- Evaporation rate : No data available
- Explosive limits : No data available
- Explosive properties : No data available
- Minimum ignition energy : No data available
- Solubility : No data available

IMMOIL-8CC_IMMOIL-500CC#2

Safety Data Sheet

According to ICOP 2014

Relative density	: 0.918 (15 °C)
Viscosity	: No data available

SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions.
Conditions to avoid	: Heat.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon.
Incompatible materials	: None known.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Reactivity	: No dangerous reactions known under normal conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Unknown acute toxicity (GHS MY)	27% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 27% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 27% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))
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Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Unknown hazards to the aquatic environment (GHS MY)	: Contains 72 % of components with unknown hazards to the aquatic environment
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.
Other information	: No other effects known.

12.2. Persistence and degradability

IMMOIL-8CC_IMMOIL-500CC#2	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

IMMOIL-8CC_IMMOIL-500CC#2	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

IMMOIL-8CC_IMMOIL-500CC #2	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone	: Not classified.
Other adverse effects	: No additional information available

IMMOIL-8CC_IMMOIL-500CC#2

Safety Data Sheet

According to ICOP 2014

SECTION 13: Disposal information

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transportation information

14.1. UN number

UN-No.(UN RTDG) : 3082
UN-No. (IMDG) : 3082
UN-No. (IATA) : 3082

14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzene, 1,2-dimethyl-4-(1-phenylethyl)-, Benzene, 1,4-dimethyl-2-(1-phenylethyl)-)
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzene, 1,2-dimethyl-4-(1-phenylethyl)-, Benzene, 1,4-dimethyl-2-(1-phenylethyl)-)
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. (Benzene, 1,2-dimethyl-4-(1-phenylethyl)-, Benzene, 1,4-dimethyl-2-(1-phenylethyl)-)

14.3. Transport hazard class(es)

UN RTDG

Transport hazard class(es) (UN RTDG) : 9
Danger labels (UN RTDG) : 9



IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9
Danger labels (IATA) : 9



14.4. Packing group

Packing group (UN RTDG) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available.

IMMOIL-8CC_IMMOIL-500CC#2

Safety Data Sheet

According to ICOP 2014

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

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

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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Data sources : In accordance with Industry Code of Practice on Chemicals Classification and Hazard Communication 2014; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; ECHA - European Chemicals Agency; RTDG - Recommendations on the Transport of Dangerous Goods; IMDG - International Maritime Dangerous Goods; IATA - International Air Transport Association; ACGIH - American Conference of Government Industrial Hygienists; IARC - International Agency for Research on Cancer.

Abbreviations and acronyms : °C – Degrees Celsius
°F – Degrees Fahrenheit
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
ACGIH – American Conference of Governmental Industrial Hygienists
ATE – Acute Toxicity Estimate
BCF – Bioconcentration Factor
BEI – Biological Exposure Index
CAS – Chemical Abstracts Service
cP – centipoise (unit of dynamic viscosity)
cSt – centistokes (unit of kinematic viscosity)
DNEL – Derived No-effect Level
EC50 – Half maximal effective concentration
ECHA – European Chemicals Agency
EC-No. – European Community number
EU – European Union
GHS – Globally Harmonized System of Classification and Labelling of Chemicals
h – Hours
IATA – International Air Transport Association
IDLH – Immediately Dangerous to Life or Health
IMDG – International Maritime Dangerous Goods
IOELV – Indicative Occupational Exposure Limit Value
kPa – kilopascal
Kow – Octanol-Water Partition Coefficient
LC50 – Median Lethal Concentration
LD50 – Median Lethal Dose
mg/l – Milligram per liter
mg/kg – Milligram per kilogram
mg/m³ – Milligram per cubic meter
Min – Minutes
NIOSH – National Institute for Occupational Safety and Health
NOEC – No Observed Effect Concentration
N.O.S. – Not Otherwise Specified
OEL – Occupational Exposure Limit
PBT - Persistent, Bioaccumulative and Toxic
ppm – Parts per million
PVC – Polyvinyl chloride
RTDG - Recommendations on the Transport of Dangerous Goods
SDS – Safety Data Sheet
STEL – Short Term Exposure Limit
TLV – Threshold Limit Value
TWA – Time Weighted Average

IMMOIL-8CC_IMMOIL-500CC#2

Safety Data Sheet

According to ICOP 2014

UN – United Nations
vPvB - Very Persistent and Very Bioaccumulative

Other information

: None.

Full text of H-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin
H317	May cause an allergic skin reaction
H332	Harmful if inhaled.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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