



BSAFETY DATA SHEET

Section 1—Identification

Product identifier

Product name	Immersion Oil Type N
Product code	MXA22202: 8cc MXA22203: 50cc MXA22204: 480cc

Other means of identification;

No information

Recommended use of the chemical and restrictions on use

Oil for microscope, oil-immersion objective lenses

Details of manufacturer or importer

Manufacture/importer	Nikon Australia Oty Ltd
Department in Charge	Marketing
Address	Suite 501, Level 5, 5 Rider Boulevard, Rhodes, NSW 2138, Sydney, Australia
Telephone number	+61-2-8767-6900
Fax number	-
e-mail address	healthcare.nau@nikon.com
Emergency phone number	1800 774 557

Manufacturer

Address	Cargille Laboratories 55 Commerce RoadCedar Grove, NJ 07009-1289 USA
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Name of manufacturer in Japan:

Department in Charge	NIKON CORPORATION Healthcare Business Unit
Address	Yokohama Plant 471, Nagaodai-cho, Sakae-ku, Yokohama, Kanagawa 244-8533
Telephone number	+81-45-853-8608
Fax number	+81-45-853-8485
e-mail address	Msqa.Manager@nikon.com

Section 2—Hazard(s) identification

Classification of the hazardous chemical

Physical Hazards

Classification not possible

Health Hazards

Skin corrosion/irritation:	Category 2
Specific target organ toxicity (single exposure)	Category 3 (respiratory tract irritation)
Specific target organ toxicity (repeated exposure)	Category 2 (Liver)

Environmental Hazards

Hazardous to the aquatic environment (chronic) Category 1

Other Hazards

No information

Label elements, including precautionary statements

GHS pictograms



Signal word

Hazard statement(s)

Warning

H315: Causes skin irritation
H335: May cause respiratory irritation
H373: May cause damage to liver through prolonged or repeated exposure
H410: Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

[Prevention]

P260: Do not breathe dust/fume/gas/mist/vapours/ spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves.

[Response]

P302+P352: IF ON SKIN: Wash with plenty of water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314: Get medical advice/attention if you feel unwell.
P332+P313: If skin irritation occurs: Get medical advice/attention.

[Storage]

P362: Take off contaminated clothing and wash before reuse.
P391: Collect spillage.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

[Disposal]

P405: Store locked up.
P501: Dispose of contents/ container in accordance with related laws and local/ regional regulations.

Section 3—Composition and information on ingredients

Substance/Mixture

Mixture

Compositions

Chemical name	CAS No.	Concentration/concentration ranges (wt %)
–	–	25 – 50
Hydrogenated terphenyl	–	25 – 50
–	–	25 – 50
Terphenyls	–	1 – 2.5

Section 4—First aid measures

Description of necessary first aid measures

IF INHALED	Supply fresh air; consult doctor in case of complaints.
IF ON SKIN	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
IF IN EYES	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
IF SWALLOWED	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call medical help immediately.

Symptoms caused by exposure

Gastric or intestinal disorders when ingested.
Causes skin irritation
May cause respiratory irritation
May cause damage to liver through prolonged or repeated exposure

Medical attention and special treatment

If medical advice is needed, have product container or label at hand.

Section 5—Firefighting measures

Suitable extinguishing equipment

Foam, fire-extinguishing powder, gaseous extinguishing agents, carbon dioxide, water haze or fog

Specific hazards arising from the chemical

Formation of toxic gases (carbon monoxide and carbon dioxide) is possible during heating or in case of fire.

Special protective equipment and precautions for firefighters

Wear self-contained respiratory protective device.
Wear fully protective suit.



Section 6—Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Wear protective equipment.
- Keep unprotected persons away.
- Ensure adequate ventilation.

Environmental precautions

- Do not allow to enter sewers/ surface or ground water.
- Inform respective authorities in case of seepage into water course or sewage system.

Methods and materials for containment and cleaning up

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Send for recovery or disposal in suitable receptacles.

Section 7 – Handling and storage

Precautions for safe handling

- | | |
|---|--|
| Technical measures | Install appropriate equipment and wear suitable protective apparatus described in “Section 8 – Exposure controls and personal protection ”. |
| Precautions such as local/total ventilation | No special measures required. |
| Precautions for safe handling | Avoid splashes or spray in enclosed areas. |
| Prevention of contact | No decomposition if used and stored according to specifications.
Excessive heat.
Store away from oxidising agents. |
| Advice on general occupational hygiene | Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work. |

Conditions for safe storage, including any incompatibilities

- | | |
|-------------------------------------|--|
| Technical measures | No special measures required. |
| Incompatible materials and mixtures | Store away from oxidizers, strong acids or strong bases. |
| Conditions for safe storage | Avoid storage near extreme heat, ignition sources or open flame.
Store in a well-ventilated place. Keep cool.
Store away from foodstuffs.
Further information about storage conditions:
Storage Temperatures: 65 – 90° F/18 – 32° C.
Keep container tightly sealed. |
| Packing material | Use a sealed container without damage or leakage. |

Section 8 – Exposure controls and personal protection

Exposure control measures

ACGIH TLV–TWA (2021)	0.5 ppm, 4.9 mg/m ³ (Hydrogenated terphenyl)
ACGIH TLV–STEL (2021)	Celling: 0.53 ppm, 5 mg/m ³ (Terphenyls)
NOHSC: 3003 TWA (2005)	0.5 ppm, 4.7 mg/m ³ (Terphenyls)
NOHSC: 3003 STEL (2005)	Not applicable

Engineering controls

The usual precautionary measures are to be adhered to when handling chemicals.
Do not inhale gases/fumes/aerosols.
Avoid contact with the eyes and skin.

Individual protection measures, for example personal protective equipment (PPE)

Respiratory protection	Not required under normal conditions of use.
Hand protection	Protective gloves The glove material has to be impermeable and resistant to the product/the substance/the preparation.
Eye and face protection	Safety glasses Follow relevant national guidelines concerning the use of protective eyewear.
Skin protection	Protective work clothing

Section 9 – Physical and chemical properties

Appearance (physical state, colour etc.)	Colourless to light yellow oily liquid
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Evaporation rate	< 1.0 (water = 1.0)
Flammability (solid, gas)	Not applicable
Flash point	163° C (Open Cup)
Initial boiling point and boiling range	340° C (1 atm/1.0132 bar)
Melting point/freezing point	0° C
Odour	Slight odour
Odour threshold	Not determined
Partition coefficient: <i>n</i> -octanol/water	Not determined
pH	Not applicable
Relative density	Density: 0.923 g/cm ³ (25° C) Relative density: Not determined
Solubility	Water: Not miscible or difficult to mix.
Upper/Lower flammability or explosive limits	Not determined
Vapour density	Not determined
Vapour pressure	< 0.133 hPa (< 0.1 mm Hg)



Viscosity	Dynamic (23° C): > 100 cSt Kinematic (40° C): > 20.5 mm ² /sec (DIN 53211/4)
Other information	No information

Section 10 – Stability and reactivity

Reactivity	No further relevant information available.
Chemical stability	Stable under normal temperatures and pressures.
Possibility of hazardous reactions	Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
Conditions to avoid	No decomposition if used and stored according to specifications. Excessive heat, ignition sources or open flame. Store away from oxidisers, strong acids, strong bases.
Incompatible materials	Reacts with strong oxidising agents. Reacts with strong acids and alkali.
Hazardous decomposition products	Under fire conditions only: Carbon monoxide and carbon dioxide

Section 11 – Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics;

Information on product:

Skin corrosion/irritation	Causes skin irritation. Irritating to skin.
Other toxicological information	No information

Information on ingredients:

Hydrogenated terphenyl

Acute toxicity (oral):	Rat LD ₅₀ = 6,600 mg/kg – 17,500 mg/kg
Acute toxicity (dermal):	Rabbit LD ₅₀ > 2,000 mg/kg
Acute toxicity (inhalation: dust/mist):	Rat 4hr-LC ₅₀ > 4.7 mg/L Rat 4hr-LC ₅₀ > 4.3 mg/L (OECD TG 403, GLP)
Skin corrosion/irritation	In a skin irritation test with rabbits, moderate irritation was observed.
Specific Target Organ Toxicity (STOT)—single exposure	About humans, there are descriptions that “irritation on an upper respiratory tract and nausea symptoms are present” when aerosol was inhaled, and that “an airway is stimulated” in the acute inhalation exposure test employing rats”, therefore, it classified into Category 3 (Respiratory tract irritation). In addition, the acute oral toxicity tests employing rats (OECD TG 401, GLP) has a description that “control of spontaneous movement, and dirt on hairs by diarrhea, feces and urine were seen with general findings, but necropsy findings were normal in all animals” by 10,000 mg/kg. Moreover, there is a description that “short term exposure effect: eyes, skin, and respiratory tract are stimulated”.



Specific Target Organ Toxicity (STOT)—repeated exposure	In a 20-day dermal administration test with rabbits (International Research and Development Corp. method, GLP) it was reported that "at 2,000 mg/kg there was no systemic toxicity", and in a 90-day oral administration study with rats (OECD TG 408, GLP) it was reported that "there were weight increase in the liver, kidney and adrenal gland (females only) and weight loss in female animals but no toxic effects related to administration of this substance in histopathological studies". Also, in a 90-day aerosol inhalation exposure test with rats (OECD TG 413, GLP) there is a report of "weight loss, increased liver weight and chromodacryorrhea", and in a 182-day aerosol inhalation exposure test with rats (Industrial Biotest Laboratory, Inc. method) there is a report of "an increase in SGOT, SAP and SGPT, a reduction in BUN and an increase in liver weight".
Other toxicological information	No information
Terphenyls	
Acute toxicity (oral):	Rat LD ₅₀ = 17,500 mg/kg
Acute toxicity (dermal):	Rabbit LD ₅₀ > 12,500 mg/kg
Other toxicological information	No information

Section 12 – Ecological information

Ecological information for product

Ecotoxicity	No information
Persistence and degradability	No information
Bioaccumulative potential	No information
Mobility in soil	No information
Other adverse effects	No information

Ecological information for ingredients

Terphenyls	
Ecotoxicity (acute)	No information
Ecotoxicity (chronic)	Very toxic to aquatic life with long lasting effects.
Persistence and degradability	No information
Bioaccumulative potential	No information
Mobility in soil	No information
Other adverse effects	No information

Section 13 – Disposal considerations

Disposal methods

Must not be disposed together with household garbage. Do not allow product to reach sewage system.



The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
Disposal must be made according to official regulations.

Section 14 – Transport information

International regulation

UN number	3082
Proper shipping name or technical name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Terphenyls)
Transport hazard class	9
Packing group	III
Environmental hazards for transport purposes	Applicable
IBC Code	Not applicable

Special precautions for user

Not regulated when carried in single or combination packaging containing a net quantity of 5 L or less for liquids or 5 kg or less for solids per the following.

Additional information

No information

Hazchem or emergency action code

Not applicable

Section 15 – Regulatory information

AICS All ingredients in this product are on the inventory.

Restricted hazardous chemicals under regulations 340 and 380 to 384

All ingredients in this product are not listed.

Section 16 – Any other relevant information

Update history:

Date of issue: 25th October, 2021

Reference

Information of NIKON CORPORATION

ACGIH, American Conference of Governmental Industrial Hygienists (2021) TLVs and BEIs.



[Disclaimer]

This SDS has been prepared on the basis of laws, regulations and information available at this time. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.