# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>IMMERSION OIL TYPE F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>MXA22168 : 30cc</td>
</tr>
</tbody>
</table>

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

- **Identified uses:** Oil for microscope, oil-immersion objective lenses
- **Uses advised against:** No information

### 1.3. Details of the supplier of the safety data sheet

- **Name of supplier (importer):** Nikon Instruments Europe B.V.
- **Department in Charge:** Marketing
- **Address:** Tripolis 100, Burgerweeshuispad 101, 1076 ER Amsterdam, The Netherlands
- **Telephone number:** +31-20-7099-000
- **Fax number:** +31-20-7099-298
- **e-mail address:** microscope.eu@nikon.com

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

### 1.4. Emergency telephone number

- +81-45-853-8608

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification in accordance with EC No 1272/2008:**
- Skin Irrit. 2: H315
- Eye Irrit. 2: H319
- Aquatic Acute 1: H400
- Aquatic Chronic 1: H410

### 2.2. Label elements

**In accordance with EC No 1272/2008:**
- Pictogram
Signal word  Warning
Hazard Statements  H315: Causes skin irritation
H319: Causes serious eye irritation
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P391: Collect spillage.
[Disposal]  P501: Dispose of contents/container in accordance with related laws and local/regional regulations.

2.3. Other hazards
The product does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances  Not applicable
3.2. Mixtures

Product Name:  IMMERSION OIL TYPE F

Information on ingredients:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Index No.</th>
<th>REACH Registration No.*</th>
<th>Concentration (wt %)</th>
<th>Classification**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>About60</td>
<td>-</td>
</tr>
</tbody>
</table>
| Cyclohexyl benzene | 827-52-1 | 212-572-0 | - | - | About40 | Skin Irrit. 2: H315  
Asp. Tox. 1: H319  
Aquatic Acute 1: H400  
Aquatic Chronic 1: H410 |
| Others        | -       | -      | -         | -                       | <10                 | -                |

* Registration numbers of ingredients which shall be in compliance with Regulation (EC) No 1907/2006 will be filled in later.

** Full texts of relevant hazard statements and risk phrases can be seen in SECTION 16 of this SDS.

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED  If you feel unwell, get medical attention and treatment.
When the symptoms continue, consult a doctor/physician.

IF ON SKIN  Rinse with plenty of water.
When the symptoms continue, consult a doctor/physician.

IF IN EYES  Rinse carefully with plenty of water for 15 - 20 minutes.
Remove contact lenses, if it can be easily removed off, then
4.2. Most important symptoms and effects, both acute and delayed

Causes skin irritation
Causes serious eye irritation

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

No information

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Use water mist, dry chemical powder, fire foam or carbon dioxide.

Unsuitable extinguishing media
Applying direct water may be dangerous because fire may expand to surroundings.

5.2. Special hazards arising from the substance or mixture
In case of fire, toxic decomposition products may be generated.

5.3. Advice for firefighters
Cut off any ignition sources and extinguish with an appropriate agent.
Cool the surrounding tank and the buildings with direct water jet to avoid risk of fire spreading.
Take action from windward.
Keep out except responsible personnel.
Move container to a safe area if it can be done without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
Wear suitable protective equipment (see SECTION 8) e.g., safety gloves, protective mask and/or protective glasses to prevent exposure.

For emergency responders:
Keep out except responsible personnel.
Wear suitable protective equipment described in SECTION 8: Exposure controls/ personal protection

6.2. Environmental precautions
Avoid release into the environment because product may cause local effects.

6.3. Methods and material for containment and cleaning up
Stop leak if you can do it without risk.
6.4. Reference to other sections

Refer to SECTION 8: Exposure controls/personal protection and SECTION 13: Disposal considerations as appropriate.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures:
- Install appropriate equipment and wear suitable protective apparatus described in Section 8: Exposure controls/personal protection.
- Wash hands thoroughly after handling.
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene:
- Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures:
- Install appropriate equipment and wear suitable protective apparatus described in “Section 8: Exposure controls/personal protection”.

Incompatible materials:
- Oxidizing agents

Conditions for safe storage:
- Avoid sunlight. Store in a cool place.
- Avoid high-temperature materials.

Packing material:
- Use a sealed container without damage or leakage.

7.3. Specific end use(s)
- Immersion oil for microscope
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acceptable concentration (exposure limit, biological exposure index)

- EU IOELV: Not applicable
- ACGIH TLV: Not applicable

8.2. Exposure controls

**Appropriate engineering controls:**
Shower and eye washer should be available in the work area.
Under high temperature or in case of mist generation, use ventilation.

**Personal protective equipment:**
- Respiratory protection: Wear appropriate protective mask or air aspirator as required.
- Hand protection: If hand contact is possible, wear protective gloves.
- Eye protection: Wear safety glasses or goggles if in eyes.
- Skin and body protection: Wear protective clothing and apron if necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **Appearance**: Colourless transparent slightly viscous liquid
- Odour: Pleasant odour
- Odour threshold: No information
- pH: No information
- Melting point/freezing point: No information
- Initial boiling point and boiling range: No information
- Flash point: No information
- Evaporation rate: No information
- Flammability (solid, gas): No information
- Upper/lower flammability or explosive limits: No information
- Vapour pressure: No information
- Vapour density: No information
- Relative density: 0.8-1.0 (20°C)
- Solubility (ies): No information
- Partition coefficient: n-octanol/water: No information
- Auto-ignition temperature: No information
- Decomposition temperature: No information
- Viscosity: No information
- Explosive properties: No information
- Oxidising properties: No information

9.2. Other information
No information
SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal handling condition.

10.2. Chemical stability
Stable under normal handling condition.

10.3. Possibility of hazardous reactions
No hazardous reaction expected under normal handling.

10.4. Conditions to avoid
Avoid sunlight. Store in a cool place.

10.5. Incompatible materials
Oxidizing agents

10.6. Hazardous decomposition products
In case of fire, toxic decomposition products may be generated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on product:
No information

Information on ingredients:
Cyclohexylbenzene

Acute toxicity (oral): Rat LD₅₀=5 g/kg
Acute toxicity (dermal): Rabbit LD₅₀>7,940 mg/kg
Skin corrosion/irritation: Rabbit test: severe (500 μL/24h)
Aspiration hazard: Cyclohexylbenzene is a hydrocarbon and has a dynamic viscosity of 3.2 mm²/s (20°C).

11.2. Information on aquatic hazard

Aquatic acute toxicity:
Fish (Oryzias latipes) 96h LC₅₀= 1.2 mg/L
Crustacean (Daphnia magna) 48h EC₅₀= 0.37 mg/L
Algae (Selenastrum capricornutum) 72h EC₅₀= 0.69 mg/L

Aquatic chronic toxicity:
No information

SECTION 12: Ecological information

12.1. Toxicity:
Information on product: No information

Information on ingredients:
Cyclohexylbenzene

Aquatic acute toxicity: Fish (Oryzias latipes) 96h LC₅₀= 1.2 mg/L
Crustacean (Daphnia magna) 48h EC₅₀= 0.37 mg/L
Algae (Selenastrum capricornutum) 72h EC₅₀= 0.69 mg/L

Aquatic chronic toxicity: No information

12.2. Persistence and degradability:
Information on product: No information
Information on ingredients:
Cyclohexylbenzene
Not readily degradable

12.3. Bioaccumulative potential:
Information on product: No information

Information on ingredients:
Cyclohexylbenzene
LogKow=4.88

12.4. Mobility in soil:
Information on product: No information

Information on ingredients: No information

12.5. Results of PBT and vPvB assessment:
The product does not meet the PBT and vPvB criteria.

12.6. Other adverse effects:
No information

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste in accordance with applicable local, regional and international regulations and standards.
When disposing, consult to a certificated waste trader or local offices if they deal with the waste.
Used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations.
Contents should be removed completely when dispose of empty containers.

SECTION 14: Transport information

14.1. UN number 3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es) 9
14.4. Packing group III
14.5. Environmental hazards Applicable
14.6. Special precautions for user
When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping off or damaging. Take preventive measures of collapse.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code
Not applicable
SECTION 15: Regulatory information

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

The product and its ingredients are not regulated by specific provisions related to protection of human health or the environment at EU level, e.g. not considered as SVHCs or POPs.

15.2. Chemical safety assessment

Not conducted

SECTION 16: Other information

Update history:

Date of issue: 01th September, 2017

References:

Raw materials SDS documents

Relevant risk phrases of which do not appear elsewhere in this SDS

H304: May be fatal if swallowed and enters airways.

Abbreviations

PBT: Persistent, Bioaccumulative and Toxic substance
POPs: Persistent Organic Pollutants
STOT: Specific Target Organ Toxicity
SVHC: Substances of Very High Concern
vPvB: Very Persistent and Very Bioaccumulative

[Disclaimer]

This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. 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.