

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 02/02/2015

Version 1.2

### **SECTION 1.Identification**

### **Product identifier**

Product number 104699

Product name Immersion oil for microscopy

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

Identified uses In vitro diagnostic reagent, Reagent for analysis

## Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

### **SECTION 2. Hazards identification**

#### **GHS-Labeling**

Not a dangerous substance according to GHS.

## Other hazards

None known.

## SECTION 3. Composition/information on ingredients

Chemical nature Mixture of organic compounds

## Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

Benzyl benzoate (>= 30 % - < 50 %)

120-51-4

Exact percentages are being wihtheld as a trade secret.

### **SECTION 4. First aid measures**

Description of first-aid measures

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 104699 Version 1.2

Product name Immersion oil for microscopy

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eve contact

After eye contact: rinse out with plenty of water.

Ingestion

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Never give anything by mouth to an unconscious person.

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

irritant effects, agitation, spasms, Diarrhea, Nausea, Vomiting, cardiovascular disorders, ataxia (impaired locomotor coordination)

## Indication of any immediate medical attention and special treatment needed

No information available.

## **SECTION 5. Fire-fighting measures**

## Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### Special hazards arising from the substance or mixture

Combustible material

Development of hazardous combustion gases or vapors possible in the event of fire.

## Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **SECTION 6. Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

### **Environmental precautions**

Do not empty into drains.

### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 104699 Version 1.2

Product name Immersion oil for microscopy

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

## SECTION 7. Handling and storage

## Precautions for safe handling

Observe label precautions.

## Conditions for safe storage, including any incompatibilities

Tightly closed.

Store at +15°C to +25°C (+59°F to +77°F).

## SECTION 8. Exposure controls/personal protection

## Exposure limit(s)

Contains no substances with occupational exposure limit values.

## **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

## Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Change contaminated clothing. Wash hands and face after working with substance.

## Eye/face protection

Safety glasses

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

### Other protective equipment:

protective clothing

## Respiratory protection

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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

Physical state liquid

Color light yellow

Odor characteristic

Odor Threshold No information available.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number	104699	Version 1.2
Product name	Immersion oil for microscopy	

pH No information available.

Melting point No information available.

Boiling point No information available.

Flash point No information available.

Evaporation rate No information available.

Flammability (solid, gas) Not applicable

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

Relative vapor density No information available.

Density ca.1.02 g/cm<sup>3</sup>

at 68 °F (20 °C)

Relative density No information available.

Water solubility at 68 °F (20 °C)

practically insoluble

Partition coefficient: n-

octanol/water

No information available.

Autoignition temperature

No information available.

Decomposition temperature No information available.

Viscosity, dynamic 100 - 120 mPa.s

at 68 °F (20 °C)

Explosive properties Not classified as explosive.

Oxidizing properties none

## SECTION 10. Stability and reactivity

### Reactivity

See below

### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### Possibility of hazardous reactions

Violent reactions possible with:

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 104699 Version 1.2

Product name Immersion oil for microscopy

Strong oxidizing agents

#### Conditions to avoid

no information available

### Incompatible materials

various plastics, Light metals, metal alloys

## Hazardous decomposition products

no information available

### **SECTION 11. Toxicological information**

## Information on toxicological effects

Likely route of exposure
Eye contact, Skin contact

Acute oral toxicity

absorption

Symptoms: Nausea, Vomiting, Diarrhea Acute toxicity estimate: > 2,000 mg/kg

Calculation method

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Skin irritation

Possible damages: slight irritation

Eye irritation

Possible damages: slight irritation

Sensitization

Sensitization possible in predisposed persons.

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

## Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 104699 Version 1.2

Product name Immersion oil for microscopy

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

### **Further information**

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

After absorption of toxic quantities:

Systemic effects:

cardiovascular disorders, agitation, spasms, ataxia (impaired locomotor coordination)

Further data:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

### Ingredients

## Benzyl benzoate

Acute oral toxicity

LD50 Rat: 1,904 mg/kg (RTECS)

Acute dermal toxicity

LD50 Rabbit: 4,000 mg/kg (RTECS)

Sensitization
Patch test: human
Result: negative
(IUCLID)

Sensitization test: Guinea pig

Result: negative (IUCLID)

(IUCLID)

Germ cell mutagenicity Genotoxicity in vitro Ames test Result: negative

## **SECTION 12. Ecological information**

### **Ecotoxicity**

No information available.

# Persistence and degradability

No information available.

## Bioaccumulative potential

No information available.

## Mobility in soil

No information available.

## Additional ecological information

Discharge into the environment must be avoided.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 104699 Version 1.2

Product name Immersion oil for microscopy

## Ingredients

### Benzyl benzoate

Toxicity to fish

LC50 Danio rerio (zebra fish): 2.32 mg/l; 96 h (IUCLID)

Toxicity to bacteria

EC50 activated sludge: > 10,000 mg/l; 3 h

ISO 8192 (IUCLID)

Biodegradability

94 %; 28 d

OECD Test Guideline 301F Readily biodegradable.

## **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **SECTION 14. Transport information**

Land transport (DOT)

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

Class 9
Packing group III
Environmentally hazardous --

Air transport (IATA)

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (BENZYL BENZOATE)

Class 9
Packing group III
Environmentally hazardous -Special precautions for user no

Sea transport (IMDG)

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 104699 Version 1.2

Product name Immersion oil for microscopy

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (BENZYL BENZOATE)

Class 9
Packing group III
Environmentally hazardous -Special precautions for user
EmS yes
F-A S-F

## **SECTION 15. Regulatory information**

## **United States of America**

#### **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

#### **DEA List I**

Not listed

#### **DEA List II**

Not listed

### **US State Regulations**

## Massachusetts Right To Know

Remarks

No components are subject to the Massachusetts Right to Know Act.

## California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 104699 Version 1.2

Product name Immersion oil for microscopy

Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

KOREA: Not in compliance with the inventory

## **SECTION 16. Other information**

### Training advice

Provide adequate information, instruction and training for operators.

## Labeling

Hazard pictograms



Hazard Statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P273 Avoid release to the environment.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date 02/02/2015

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

All rights reserved. Millipore and the "M" Mark are registered trademarks of Merck KGaA, Darmstadt, Germany.