

SAFETY DATA SHEET

Cargille Immersion Oil, Type B

Version 1 · issued 21 October 2026

1. IDENTIFICATION**Product Identifiers**

Product Name	Cargille Immersion Oil, Type B
Other Names	N/A
Product Number(s)	IC114, IC1142, IC1143, IC1145
CAS Number	-

Recommended use of the chemical and restriction on use

Laboratory use. As a Microscope Immersion Oil at normal room pressure 101,32 hPa (760 mm Hg), temperature 7°C to 40°C (45°F to 104°F) in a non misted / non airborne state in a room having normal air changes (2) / HR., in a trained and supervised laboratory / industrial setting using standard Good Laboratory/Good Manufacturing procedures.

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Skin corrosion/irritation Category 2 H315
Hazardous to the aquatic environment – Acute Hazard Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard Category 2 H411

Label Elements**Harmful / irritant • Hazardous to the environment**

Signal Words Warning

Hazard Statement(s)
H315 - Causes skin irritation.
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see section 4 on this SDS).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Primary route(s) of entry

Ingestion.
Inhalation.
Eye contact
Skin contact.

Human Health

Inhalation	Not available.
Ingestion	Not available.
Eyes	Not available.
Skin	Not available.

Environment

No further relevant information available.

Other Hazards Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.
Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
White mineral oil, petroleum	8042-47-5	30-60%	Asp. Tox. 1, H304
Hydrogenated terphenyls	61788-32-7	29-34.1%	Aquatic Acute 1, H400; Aquatic Chronic 4, H413
Butene, homopolymer	9003-29-6	10-30%	Skin Irrit. 2, H315; Asp. Tox. 1, H304
Polyphenyls, quater- and higher, partially hydrogenated	68956-74-1	3-7%	Not classified
Terphenyls	26140-60-3	1-5%	Aquatic Acute 1, H400; Aquatic Chronic 1, H410

4. FIRST AID MEASURES

Ingestion	After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Ingestion may cause adverse effects.
Inhalation	Supply fresh air; consult doctor in case of complaints. Ingestion may cause adverse effects.
Skin Contact	Remove contaminated clothing. Immediately drench affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Redness, pain, swelling, itching, burning, dryness, and dermatitis.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. May cause slight irritation to eyes.
Other Information	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

5. FIREFIGHTING MEASURES**Suitable extinguishing equipment**

Fire Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

HAZCHEM Not available.

Special protective equipment and precautions for fire fighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Measures: Spilled product presents a slipping hazard. Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing.
 For Non-Emergency Personnel:
 Protective Equipment: Use appropriate personal protective equipment (PPE).
 Emergency Procedures: Evacuate unnecessary personnel. Evacuate unnecessary personnel.
 For Emergency Personnel
 Protective Equipment: Equip cleanup crew with proper protection.
 Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

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 clean up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
 Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material.
 Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

7. HANDLING AND STORAGE

Precautions for safe handling

Additional Hazards When Processed: Spilled material may present a slipping hazard.
 Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.
 Handling Temperature: 15.6 – 32 °C(60 - 90 °F)
 Hygiene Measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for safe storage

Technical Measures: Comply with applicable regulations.
 Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store in a dry, cool place.
 Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
 Incompatible Materials: Strong acids, strong bases, strong oxidizers.
 Storage Temperature: 15.6 – 32 °C (60 - 90 °F)
 Specific End Use(s)
 For professional and R&D use only. Conditions of Intended Use: (ABBR. C.I.U.) As a Microscope Immersion Oil at normal room pressure 101,32 hPa (760 mm Hg), temperature 7°C to 40°C (45°F to 104°F) in a non misted / non airborne state in a room having normal air changes (2) / HR., in a trained and supervised laboratory / industrial setting using standard Good Laboratory/Good Manufacturing procedures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment

Eye and face protection

Chemical safety goggles. Safety glasses with side-shields.

Skin protection

Gloves. Protective clothing. Protective goggles. Wear protective gloves.

Body protection

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
 In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	Clear colourless to light yellow, oily liquid
Odour	Slight
pH	Not applicable.
Vapour Pressure	<0.133hPa (<0.1mmHg)
Density	0.923 g/cm ³ (7.702 lbs/gal)
Boiling Point	340 °C (644 °F) (1 atm / 1.0132 bar)
Melting Point	0 °C (32 °F)
Solubility	Not miscible or difficult to mix.
Specific Gravity of Density	Not applicable.
Flash Point	163 °C (325 °F) (Open Cup)
Flammable (Explosive) Limits	Not determined.
Ignition Temperature	Not determined.
Formula	Not available.

10. STABILITY AND REACTIVITY

Reactivity	Hazardous reactions will not occur under normal conditions.
Chemical stability	Stable under recommended handling and storage conditions (see section 7). Stable under recommended handling and storage conditions (see section 7).
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Ignition sources. Direct sunlight, extremely high or low temperatures, and incompatible materials.
Incompatible materials	Strong acids, strong bases, strong oxidizers.

11. TOXICOLOGICAL INFORMATION

Acute effects	No further relevant information available.
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	Irritant to skin and mucous membranes.
Ingestion	No further relevant information available.
Inhalation	Irritant to skin and mucous membranes.

Chronic effects

Germ Cell Mutagenicity: Not classified
 Carcinogenicity: Not classified
 Specific Target Organ Toxicity (Repeated Exposure): Not classified
 Reproductive Toxicity: Not classified
 Specific Target Organ Toxicity (Single Exposure): Not classified
 Aspiration Hazard: Not classified.
 Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.
 Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.
 Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.
 Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.
 Chronic Symptoms: None expected under normal conditions of use.
 LD50 and LC50 Data:
 White mineral oil, petroleum (8042-47-5)
 LD50 Oral Rat > 5000 mg/kg (Source: IUCLID)
 Butene, homopolymer (9003-29-6)
 LD50 Oral Rat > 2000 mg/kg
 LD50 Dermal Rat > 2000 mg/kg
 LC50 Inhalation Rat > 19171 mg/m³ (Exposure time: 4 h Source: ECHA_API)
 LC50 Inhalation Rat > 4185 ppm/4h
 Terphenyls (26140-60-3)
 LD50 Oral Rat > 5000 mg/kg (Source: EPA_HPV)
 LD50 Dermal Rabbit > 5000 mg/kg (Source: ECHA_API)
 LC50 Inhalation Rat > 3.8 mg/l/4h
 Hydrogenated terphenyls (61788-32-7)
 LD50 Oral Rat > 10000 mg/kg (Source: EPA_HPV)
 LD50 Dermal Rabbit > 2000 mg/kg (Source: ECHA_API)
 LC50 Inhalation Rat > 4.7 mg/l/4h

Toxicity and irritation

No further relevant information available.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
 White mineral oil, petroleum (8042-47-5)
 LC50 Fish 1 > 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
 Butene, homopolymer (9003-29-6)
 EC50 - Crustacea [1] > 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
 Terphenyls (26140-60-3)
 LC50 Fish 1 > 0.11 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
 EC50 - Crustacea [1] 0.04 mg/l (Exposure time: 48 h - Species: Daphnia magna)
 LC50 Fish 2 > 0.11 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
 EC50 - Crustacea [2] 0.02 mg/l (Exposure time: 48 h - Species: Daphnia magna) Data Specific to m-Terphenyl.
 NOEC Chronic Fish 0.04 mg/l (Duration: 34 d - Species: Pimephales promelas)
 Hydrogenated terphenyls (61788-32-7)
 LC50 Fish 1 > 0.53 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
 EC50 - Crustacea [1] > 1.34 mg/l
 LC50 Fish 2 > 0.53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)

Persistence and degradability

Cargille Immersion Oil Type A & B
 Persistence and Degradability May cause long-term adverse effects in the environment.

Bioaccumulative potential

Bioaccumulative Potential
 Cargille Immersion Oil Type A & B
 Bioaccumulative Potential Not established.
 White mineral oil, petroleum (8042-47-5)
 Partition coefficient n-octanol/water (Log Pow) > 6
 Butene, homopolymer (9003-29-6)
 Partition coefficient n-octanol/water (Log Pow) 7.6 – 7.8 at 20 °C / 68 °F (at pH 7)

Other adverse effects

Harmful to fish
 Toxic for water fleas
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

13. DISPOSAL CONSIDERATIONS**General information**

Sewage Disposal Recommendations: Do not dispose of waste into sewer. Do not empty into drains.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

14. TRANSPORT INFORMATION**ADG label required****Marine pollutant • Class 9 Miscellaneous**

HAZCHEM	Not available.
UN Number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (TERPHENYL)
Transport hazard class	9 Miscellaneous dangerous substances and articles
Packing group	PG III
Environmental hazard	This is a marine pollutant. Harmful to fish. Toxic for water fleas.
Special precautions for users	Special precautions for user Warning: Miscellaneous dangerous substances and articles Danger code (Kemler): 90 EMS Number: F-A,S-F
Additional information	Not regulated when carried in single or combination packaging containing a net quantity of 5L or less for liquids or 5 kg or less for solids per the following: DOT: 171.4©(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197

15. REGULATORY INFORMATION

Poisons Schedule Number	None of the ingredients are listed.
Other Information	No further relevant information available.

16. OTHER INFORMATION

SDS preparation date	21 October 2026
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Comments

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
 AU_WES: Australia WES
 CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
 EC_RAR: European Commission Renewal Assessment Report
 EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
 ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
 ECHA_API: European Chemicals Agency API
 ECHA_RAC: ECHA Committee for Risk Assessment
 EFSA: European Food Safety Authority
 EPA: U.S. Environmental Protection Agency
 EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
 EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
 EPA_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)
 EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
 EU_CLH: European Union Harmonised Classification and Labelling Proposal
 EU_RAR: European Union Risk Assessment Report
 FOOD_JOURN: Food Research Journal (1956)
 IARC: The International Agency for Research on Cancer
 IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
 IUCLID: International Uniform Chemical Information Database
 JAPAN_GHS: Japan GHS Basis for Classification Data
 JP_J-CHECK: Japan J-Check
 KR_NIER: South Korea National Institute of Environmental Research Evaluations
 NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
 NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
 NLM_CIP: National Library of Medicine ChemID plus database
 NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
 NLM_PUBMED: National Library of Medicine PubMed database
 NTP: National Toxicology Program
 NZ_CCID: New Zealand Chemical Classification and Information Database
 OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
 OECD_SIDS: Screening Information Data Sets (Organisation for Economic Cooperation and Development)
 WHO: World Health Organization

References

Cargille SDS "Cargille Immersion Oil Type A & B" 13/03/2024
https://www.cargille.com/wp-content/uploads/2025/03/Cargille_Immersion_Oil_Type_A__B_NA.pdf

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of SDS ...