

Cargille Immersion Oil Type A & B

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Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 09/08/2016

Revision: 09/08/2016

1 Identification

- · Product identifier
- Trade name: <u>Cargille Immersion Oil Type A</u> Cargille Immersion Oil Type B
- **Product code:** Type A: 16482 Type B: 16484
- · Recommended use and restriction on use
- · Recommended use:

This SDS or an accurate copy is an integral part of using Immersion Oil Type A & B Only use Immersion Oil Type A & B if the SDS is present. Conditions prevailing in this document, unless otherwise noted: Temperature = 23°C (73°F), Pressure = 1013.25 hPa (760 mm Hg)

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 kPa (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) / hour, in a trained and supervised laboratory / industrial setting using standard Good laboratory/Good Manufacturing procedures.

Note: Product normally sold in 1/4 oz (7.4cc), 1 oz (30cc), 4 oz (120cc), 16 oz (480cc), and gallon (3.84L) quantities. Used in single drop to a few cubic centimeters per application. See requisitioner for specific quantities involved.

- · Restrictions on use: Contact manufacturer
- · Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier: Cargille Laboratories 55 Commerce Road Cedar Grove, NJ 07009-1289 USA 973-239-6633 www.cargille.com
- Emergency telephone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

- · Label elements
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms:



· Signal word: Warning

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· Hazard statements:

H315 Causes skin irritation.

Precautionary statements:

P264 Wash thoroughly after handling.

Wear protective gloves and eye protection. P280

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

• Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:	
Trade Secret	25-50%
🚱 Asp. Tox. 1, H304	
Trade Secret	25-50%
Trade Secret	25-50%
& Asp. Tox. 1, H304 Skin Irrit. 2, H315	
Flam. Liq. 4, H227	
· Additional information:	

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.

4 First-aid measures

Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

- · After eye contact:
- Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

- Gastric or intestinal disorders when ingested.
- · Danger: Causes skin irritation.

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• Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Foam Fire-extinguishing powder Gaseous extinguishing agents Carbon dioxide
- Water fog / haze For safety reasons unsuitable extinguishing agents: Water stream.
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information: No relevant information available.

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 material 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.
- Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling: Avoid splashes or spray in enclosed areas.
- Information about protection against explosions and fires: No special measures required.

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Conditions for safe storage, including any incompatibilities
 Storage
 Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame. Store in a well-ventilated place. Keep cool.

- Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizers, strong acids, strong bases.
- Further information about storage conditions: Storage Temperatures : 65 - 90 °F / 18 - 32 °C.
- Keep containers tightly sealed.
- Specific end use(s): No relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components	with limit values that require monitoring at the workplace:
Trade Secret	
REL (USA)	Long-term value: 5 mg/m ³ , 0.5 ppm
TLV (USA)	Long-term value: 4.9 mg/m ³ , 0.5 ppm nonirradiated
EL (Canada)	Long-term value: 0.5 ppm nonirradiated
EV (Canada)	Long-term value: 0.5 ppm
LMPE (Mexico	Long-term value: 0.5 ppm
Immediately re Wash hands be Do not inhale g Avoid contact v • Engineering c	n foodstuffs, beverages and feed. move all soiled and contaminated clothing. efore breaks and at the end of work. ases / fumes / aerosols. vith the eyes and skin. ontrols: No relevant information available. ipment: Not required under normal conditions of use. hands:
Protect	tive gloves
The glove mate	erial has to be impermeable and resistant to the product/ the substance/ the preparation. (Cont'd. on page 5)

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· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. • **Body protection:** Protective work clothing

- Limitation and supervision of exposure into the environment No relevant information available.

9 Physical and chemical properties

Liquid Color:Liquid Colorless Light yellowOdor:SlightOdor threshold:Not determined.pH-value:Not applicable.Melting point/Melting range:0 °C (32 °F)Boiling point/Boiling range:340 °C (644 °F) (1 atm / 1.0132 bar)Flash point:163 °C (325 °F) (Open Cup)Flammability (solid, gaseous):Not applicable.Auto-ignition temperature:Not determined.Decomposition temperature:Not determined.Danger of explosion:Not determined.Explosion limitsLower:Lower:Not determined.Upper:Not determined.Oxidizing properties:Not determined.Vapor pressure:<0.133 hPa (<0.1 mm Hg)Density at 25 °C (77 °F):0.923 g/cm³ (7.702 lbs/gal)Relative density:Not determined.Vapor density:Not determined.Vapor density:Not determined.Vapor density:Not determined.Solubility in / Miscibility with	Liquid Color:Liquid Colorless Light yellowOdor:SlightOdor threshold:Not determined.pH-value:Not applicable.Melting point/Melting range:0 °C (32 °F)Boiling point/Boiling range:340 °C (644 °F) (1 atm / 1.0132 bar)Flash point:163 °C (325 °F) (Open Cup)Flammability (solid, gaseous):Not applicable.Auto-ignition temperature:Not determined.Decomposition temperature:Not determined.Danger of explosion:Not determined.Lower:Not determined.Upper:Not determined.Oxidizing properties:Not determined.Vapor pressure:<0.133 hPa (<0.1 mm Hg)Density at 25 °C (77 °F):0.923 g/cm³ (7.702 lbs/gal)Relative density:Not determined.Vapor density:Not determined.	Appearance: Form:	Oily	
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Water: Not miscible or difficult to mix.		Solubility in / Miscibility with		
	Partition coefficient (n-octanol/water): Not determined.	Water:	Not miscible or difficult to mix.	

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 Viscosity Dynamic at 23 °C (73 °F): Kinematic at 40 °C (104 °F):
 Other information

>100 cSt >20.5 mm²/sec (DIN 53211/4) No relevant information available.

10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

Possibility of hazardous reactions:

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Reacts with strong oxidizing agents. Reacts with strong acids and alkali.

• Conditions to avoid: Excessive heat.

Store away from oxidizing agents.

- · Incompatible materials: No relevant information available.
- · Hazardous decomposition products:

Under fire conditions only: Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- On the skin: Irritant to skin and mucous membranes.
- On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

(Cont'd. on page 7)

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

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- Skin contact. • Acute effects (acute toxicity, irritation and corrosivity): Irritating to skin.
- · Repeated dose toxicity: None.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential:
- Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- Mobility in soil: No relevant information available.
- · Ecotoxical effects:
- · Remark:
- Harmful to fish

Toxic for water fleas

- · Additional ecological information
- · General notes:

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.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of 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.

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Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 09/08/2016

Trade name: Cargille Immersion Oil Type A Cargille Immersion Oil Type B

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Uncleaned packagings
 Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number	
DOT	Exempt
ADR, IMDG, IATA	UN3082
UN proper shipping name	
DOT	Exempt
ADR, IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTAN LIQUID, N.O.S (TERPHENYL)
Transport hazard class(es)	
DOT	
Class	Exempt
ADR	
Class	9 (M6) Miscellaneous dangerous substances a articles
Label	9
IMDG	
<u>.</u>	
3	
Class	9 Miscellaneous dangerous substances and articles
Label	9
ΙΑΤΑ	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	Exempt
ADR, IMDG, IATA	

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 09/08/2016

Revision: 09/08/2016

Trade name: Cargille Immersion Oil Type A Cargille Immersion Oil Type B

	(Cont'd. of page
 Environmental hazards Marine pollutant: 	Yes
· Special precautions for user	Warning: Miscellaneous dangerous substances ar articles
· Danger code (Kemler):	90
· EMS Number:	F-A,S-F
 Transport in bulk according to Annex 	
MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

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

· United States (USA)

· SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

• Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

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acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 09/08/2016

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Trade name: Cargille Immersion Oil Type A **Cargille Immersion Oil Type B**

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Carcinogenic categories

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The information supplied is based on data available to us and is believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to this information presented and Cargille Laboratories assumes no responsibility for the result of the use of this product. This information is furnished upon the condition that the persons responsible for its use shall make their own determination of the suitability of the material for their particular purpose. Please note that we consider the English version to be the authoritative version for compliance and regulatory purposes.

Date of preparation / last revision 09/08/2016 / -

 Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative LDLo: Lowest Lethal Dose Observed Flam. Liq. 4: Flammable liquids - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

(Cont'd. on page 11)

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

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Trade name: Cargille Immersion Oil Type A Cargille Immersion Oil Type B

(Cont'd. of page 10) Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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