

# Cargille Immersion Oil Type HF

**Safety Data Sheet** 

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

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Revision: 10/11/2016

# **1 Identification**

- Product identifier
- · Trade name: Cargille Immersion Oil Type HF
- · Product code: 16245
- · Recommended use and restriction on use

# · Recommended use:

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

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 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) / HR., in a trained and supervised laboratory / industrial setting using standard Good Laboratory/Good Manufacturing procedures.

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

- Restrictions on use: Contact manufacturer/supplier
- · 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 The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- · Label elements
- · GHS label elements Not regulated.
- · Hazard pictograms: None.
- · Signal word: None.
- · Hazard statements: None.
- Precautionary statements: None.

· 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

Asp. Tox. 1, H304

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60-80%

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#### · 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.
- · 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.
- Water spray
- · 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.

# 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

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# · Environmental precautions:

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Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Prevent from spreading (e.g. by damming-in or oil barriers).

# • Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Remove from the water surface (e.g. skim or suck off). 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. Avoid breathing mist, vapors, or spray. Information about protection against exit.
- Information about protection against explosions and fires: No special measures required.

# · 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:

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PEL (USA)	Long-term value: 5 mg/m <sup>3</sup>
REL (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> oil mist
TLV (USA)	L
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EV (Canada)	Short-term value: 10 m Long-term value: 5 mg/ Mist		(Cont'd. of page 3)	
LMPE (Mexico)	Long-term value: 5 mg/ A4	′m³		
· Exposure cor				
	ctive equipment: tive and hygienic meas	SUPOC:		
		andling chemicals should be followed.		
Keep away from	n foodstuffs, beverages a	and feed.		
	nove all soiled and conta fore breaks and at the e			
	ases / fumes / aerosols.			
Avoid contact w	ith the eyes and skin.			
	ontrols: No relevant info			
· Breatning equi		der normal conditions of use.		
Protect	ive gloves			
The glove mate		ble and resistant to the product/ the substan	nce/ the preparation.	
Safety g	glasses			
		erning the use of protective eyewear.		
	n: Protective work clothi	ing osure into the environment		
	rmation available.			
0 Physical end	l obomical properti			
9 Physical and	9 Physical and chemical properties			
<ul> <li>Information o</li> <li>Appearance:</li> </ul>	n basic physical and	d chemical properties		
Form:		Liquid		
Color:		Colorless Slight		
		N // IN // I		

	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
• Melting point/Melting range:	Not determined.
<ul> <li>Boiling point/Boiling range:</li> </ul>	Not determined.
· Flash point:	171 °C (340 °F) (Open Cup)

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· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Not determined.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
· Oxidizing properties:	Not determined.	
· Vapor pressure:	66.66 Pa	
· Density:		
Relative density at 25 °C (77 °F):	<1 (water = 1)	
Vapor density at 23 °C (73 °F):	≥ 1.0 (Air = 1)	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity		
Dynamic at 23 °C (73 °F):	700 cSt	
Kinematic at 40 °C (104 °F):		
• Other information	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: Oxidizers, strong bases, strong acids
- · Hazardous decomposition products:

Under fire conditions only: Carbon monoxide and carbon dioxide

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# 11 Toxicological information Information on toxicological effects · Acute toxicity: · LD/LC50 values that are relevant for classification: None. · Primary irritant effect: • On the skin: Based on available data, the classification criteria are not met. • 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. Eve contact. Skin contact. · 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** The product is partially biodegradable. Significant residuals remain. · Bioaccumulative potential: Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected. · Mobility in soil: No relevant information available. · 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. (Cont'd. on page 7)

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· vPvB: Not applicable.

· Other adverse effects: No relevant information available.

# 13 Disposal considerations

# · Waste treatment methods

· Recommendation:

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.

#### · Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

4 Transport information		
· UN-Number · DOT, ADR, IMDG, IATA	Not regulated.	
<ul> <li>· UN proper shipping name</li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	Not regulated.	
· Transport hazard class(es)		
· DOT, ADR, IMDG, IATA · Class	Not regulated.	
<ul> <li>Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	Not regulated.	
<ul> <li>Environmental hazards</li> <li>Marine pollutant:</li> </ul>	No	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of 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.

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<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients are listed.	
<ul> <li>Section 313 (Specific toxic chemical listings):</li> </ul>	
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 female	es:
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.	
· 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 H	lealth):
None of the ingredients are listed.	
· Canadian Domestic Substances List (DSL):	
All ingredients are listed.	

# 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 10/11/2016 / -

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

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IMDG: International Maritime Code for Dangerous Goods (Cont'd. of page 8) DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health LDLo: Lowest Lethal Dose Observed 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 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 SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com