

Cargille Immersion Oil Type NVH

Safety Data Sheet

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

Printing date: 10/11/2016

Revision: 10/11/2016

1 Identification

- Product identifier
- · Trade name: Cargille Immersion Oil Type NVH
- · Product code: 16485
- · Recommended use and restriction on use

· Recommended use:

This SDS or an accurate copy is an integral part of using Immersion Oil Type NVH. Only use Immersion Oil Type NVH 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 ¼ 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/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

- 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
- · Hazard statements:
- H315 Causes skin irritation.
- Precautionary statements:
- P264 Wash thoroughly after handling.

(Cont'd. on page 2)

(Cont'd. of page 1)

60-80%

Safety Data Sheet

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

Printing date: 10/11/2016

Revision: 10/11/2016

Trade name: Cargille Immersion Oil Type NVH

P280 Wear protective gloves and eye protection.

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

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.
- · 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

(Cont'd. on page 3)

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

Printing date: 10/11/2016

Revision: 10/11/2016

 Trade name: Cargille Immersion Oil Type NVH
 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.
- 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.
- · 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.

(Cont'd. on page 4)

(Cont'd. of page 2)

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

Printing date: 10/11/2016

Revision: 10/11/2016

Trade name: Cargille Immersion Oil Type NVH

(Cont'd. of page 3)

8 Exposure controls/personal protection
 Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 Exposure controls Personal protective equipment: General protective and hygienic measures: 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. Engineering controls: No relevant information available. Breathing equipment: Not required under normal conditions of use. Protection of hands:
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • 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
· Information on basic physical and chemical properties

· Appearance:		
Form:	Liquid	
Color:	Light yellow	
· Odor:	Slight	
	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
• Melting point/Melting range:	< 0 °C (< 32 °F)	
· Boiling point/Boiling range:	340 °C (644 °F)	
		(Cont'd. on page 5)

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

Printing date: 10/11/2016

Revision: 10/11/2016

Trade name: Cargille Immersion Oil Type NVH

		(Cont'd. of page
· 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 limits		
Lower:	Not determined.	
Upper:	Not determined.	
• Oxidizing properties:	Not determined.	
Vapor pressure:	0.133 hPa	
· Density:		
Relative density:	0.9 (water = 1)	
Vapor density:	1 (air = 1)	
Evaporation rate at 20 °C (68 °F):	App. 1 (mineral oil = 1)	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water	r): Not determined.	
· Viscosity		
Dynamic at 23 °C (73 °F):	21000 cSt	
Kinematic at 40 °C (104 °F):	>20.5 mm ² /sec (Estimated)	
• 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.
- · Incompatible materials: Oxidizers, strong bases, strong acids
- · Hazardous decomposition products:

Under fire conditions only: Carbon monoxide and carbon dioxide

(Cont'd. on page 6)

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

Printing date: 10/11/2016

Revision: 10/11/2016

Trade name: Cargille Immersion Oil Type NVH

(Cont'd. of page 5)

LD/LC5) values that are relevant for classification:
Trade S	
Oral	LD50 >34600 mg/kg (rat)
Dermal	LD50 >34600 mg/kg (rab) LD50 >10250 mg/kg (rabbit)
	e LC50/4h >17300 mg/l (rat)
	irritant effect: skin: Based on available data, the classification criteria are not met.
	eve: Based on available data, the classification criteria are not met.
	ation: Based on available data, the classification criteria are not met.
	ternational Agency for Research on Cancer):
•	the ingredients are listed.
NTP (Na	tional Toxicology Program):
•	the ingredients are listed.
	ca (Occupational Safety & Health Administration):
	the ingredients are listed.
	e route(s) of exposure:
Ingestion Inhalatio	
Eye con	
Skin cor	
	ifects (acute toxicity, irritation and corrosivity): Irritating to skin.
	ed dose toxicity: None.
	ects (carcinogenity, mutagenicity and toxicity for reproduction)
	ell mutagenicity: Based on available data, the classification criteria are not met.
	genicity: Based on available data, the classification criteria are not met.
	uctive toxicity: Based on available data, the classification criteria are not met.
	ingle exposure: Based on available data, the classification criteria are not met.
	epeated exposure: Based on available data, the classification criteria are not met.
Aenirati	on hazard: Based on available data, the classification criteria are not met.

- Aquatic toxicity Toxic to aquatic life with long lasting effects.
 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.

(Cont'd. on page 7)

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

Printing date: 10/11/2016

Revision: 10/11/2016

Trade name: Cargille Immersion Oil Type NVH

· Ecotoxical effects:

(Cont'd. of page 6)

- · Remark:
- Harmful to fish
- Toxic for water fleas

Due to mechanical actions of the product (e.g. agglutinations), damages may occur.

- · 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:

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.

14 Transport information	
· UN-Number · DOT · ADR, IMDG, IATA	Exempt UN3082
 · UN proper shipping name · DOT · ADR, IMDG, IATA 	Exempt ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPHENYL)
· Transport hazard class(es)	
· DOT · Class	Exempt
	(Cont'd. on page 8)

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

Printing date: 10/11/2016

Revision: 10/11/2016

ade name: Cargille Immersion Oil Type NVH	1
	(Cont'd. of page
· ADR	
· Class · Label	9 (M6) Miscellaneous dangerous substances an articles 9
· IMDG, IATA	9
· Class · Label	9 Miscellaneous dangerous substances and articles 9
· Packing group · DOT · ADR, IMDG, IATA	Exempt III
 Environmental hazards Marine pollutant: 	Yes Symbol (fish and tree)
 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Miscellaneous dangerous substances ar articles 90 F-A,S-F
 Transport in bulk according to Annex I MARPOL73/78 and the IBC Code 	l of Not applicable.
 Transport/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(c)(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197

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

Printing date: 10/11/2016

Revision: 10/11/2016

Trade name: Cargille Immersion Oil Type NVH

(Cont'd. of page 8)

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.
· 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 (Cont'd. on page 10)

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

Printing date: 10/11/2016

Revision: 10/11/2016

Trade name: Cargille Immersion Oil Type NVH

(Cont'd. of page 9)
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 IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LCSO: Lethal concentration, 50 percent DBS: 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 Flam. Lig. 4: Flammable liquids – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 Sources Website, LUS 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
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