

Cargille Immersion Liquid Code 4550

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Safety Data Sheet

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

Printing date: 09/02/2016

Revision: 09/02/2016

- 1 Identification
- · Product identifier
- · Trade name: Cargille Immersion Liquid Code 4550 nD= 1.4520-1.4574
- · Product code: 19568
- CAS Number: Trade Secret
- · Recommended use and restriction on use
- · Recommended use:

This SDS or an accurate copy is an integral part of using Immersion Liquid Code 4550. Only use Immersion Liquid Code 4550 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 an Optical Immersion Liquid 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 4 oz (120cc) and 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
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms:



GHS08

- · Signal word: Danger
- · Hazard statements:

H304 May be fatal if swallowed and enters airways.

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· Precautionary statements:

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- **Trade Secret**

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

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: May be fatal if swallowed and enters airways.
- 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.

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Water spray

- · Special hazards arising from the substance or mixture No relevant information available.
- 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 avidizers, attend acids, attend bases

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.

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	\cdot Components with limit values that require monitoring at the workplace:			
Trade Secret				
PEL (USA)	Long-term value: 5 mg/m ³			
REL (USA)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ oil mist			
TLV (USA)	L			
EV (Canada)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ Mist			
LMPE (Mexico)	Long-term value: 5 mg/m³ A4			
Engineering co Breathing equi Protection of h				
	ive aloves			
The glove mate Eye protection	ive gloves rial has to be impermeable and resistant to the product/ the substance/ the preparation.			

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9 Physical and chemical properties					
· Information on basic physical and chemical properties					
· Appearance:					
Form:	Liquid				
Color:	Colorless				
· Odor: · Odor threshold:	Odorless Not determined.				
· pH-value:	Not applicable.				
• Melting point/Melting range:	<0 °C (<32 °F)				
· Boiling point/Boiling range:	>230 °C (>446 °F) (1 atm / 1.0132 bar)				
· Flash point:	>120 °C (>248 °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:	66.66 Pa (0.5 mm Hg)				
 Density at 20 °C (68 °F): 	<1.0 g/cm ³ (<8.345 lbs/gal)				
· Relative density:	Not determined.				
 Vapor density at 23 °C (73 °F): Evaporation rate: 	App. 1.0 (Air = 1) ca 1, (mineral oil=1)				
•					
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.				
Partition coefficient (n-octanol/water): Not determined.					
· Viscosity					
Dynamic:	Not determined.				
Kinematic at 25 °C (77 °F):	14 mm ² /sec				
· 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.

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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: 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):

Substance is not listed.

• NTP (National Toxicology Program):

Substance is not listed.

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

Substance is not listed.

• Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): May be fatal if swallowed and enters airways.
- · 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: May be fatal if swallowed and enters airways.

12 Ecological information

· Toxicity

· Aquatic toxicity No relevant information available.

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- · 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.

· Uncleaned packagings

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

UN-Number		
DOT, ADR, IMDG, IATA	Not regulated.	
UN proper shipping name		
DOT, ADR, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA		
Class	Not regulated.	
Packing group		
DOT, ADR, IMDG, IATA	Not regulated.	

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 • Environmental hazards

 • Marine pollutant:
 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 mixture 	for the substance or
· United States (USA) · SARA	
Section 302 (extremely hazardous substances):	
Substance is not listed.	
· Section 355 (extremely hazardous substances):	
Substance is not listed.	
· Section 313 (Specific toxic chemical listings):	
Substance is not listed.	
• TSCA (Toxic Substances Control Act)	
Substance is listed.	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
Substance is not listed.	
· Chemicals known to cause reproductive toxicity for females:	
Substance is not listed.	
• Chemicals known to cause reproductive toxicity for males:	
Substance is not listed.	
· Chemicals known to cause developmental toxicity:	
Substance is not listed.	
· Carcinogenic categories	
EPA (Environmental Protection Agency):	
Substance is not listed.	
IARC (International Agency for Research on Cancer):	
Substance is not listed.	
• NIOSH-Ca (National Institute for Occupational Safety and Health):	
Substance is not listed.	
· Canadian Domestic Substances List (DSL):	
Substance is listed.	
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· 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 09/02/2016 / -· 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 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