Cargille Immersion Liquid Code 1160

Safety Data Sheet

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

Printing date: 11/10/2016 Revision: 11/10/2016

1 Identification

- · Product identifier
- · Trade name: Cargille Immersion Liquid Code 1160 nD= 1.482 1.538
- Product code: 19259, 19259-BXS, 19261, 19340, 19561
- · Recommended use and restriction on use
- · Recommended use:

This SDS or an accurate copy is an integral part of using Immersion Liquid Code 1160. Only use Immersion Liquid Code 1160 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).

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 4°C to 40°C (39°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

Repr. 1 H360 May damage fertility or the unborn child.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS08

- · Signal word: Danger
- · Hazard statements:

H360 May damage fertility or the unborn child.

· Precautionary statements:

P201 Obtain special instructions before use.

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P280	Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection.	(Cont'd. of page 1)
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national	al/international

· 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 Ingredient	🕸 Repr. 1B, H360	40-60%
85-68-7	benzyl butyl phthalate	& Repr. 1B, H360	40-60%

· Additional information:

For the wording of the listed Hazard Statements refer to section 16.

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:

Wash with soap and water.

If skin irritation is experienced, 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 damage fertility or the unborn child.
- · 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

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Water fog / haze

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· For safety reasons unsuitable extinguishing agents:

Water spray 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.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protective equipment as required.

· 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:

Prevent formation of aerosols.

Use only in well ventilated 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.

No special requirements.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

· Further information about storage conditions: Storage Temperatures: 39 - 104 °F / 4 - 40 °C.

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· **Specific end use(s)** No relevant information available.

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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.

Store protective clothing separately.

Pregnant women should strictly avoid inhalation or ingestion.

- · Engineering controls: No relevant information available.
- · Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
- · 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

Protection may be required for spills.

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 Colorless
Odor: Slight

Characteristic (Cont'd. on page 5)

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· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
Melting point/Melting range:	ca49 °C (ca56 °F)	
· Boiling point/Boiling range:	>370 °C (>698 °F)	
· Flash point:	>199 °C (>390 °F) (Open Cup)	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
· Oxidizing properties:	Not determined.	
· Vapor pressure:	8.610 mmHg	
· Density:		
Relative density:	1.05 (Water=1)	
Vapor density:	Not determined.	
Evaporation rate:	<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):	41 mm²/s	
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 Reacts with strong acids and oxidizing agents.
- · Conditions to avoid Excessive heat.
- · Incompatible materials Oxidizers
- Hazardous decomposition products

Under fire conditions only:

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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:

85-68-7 benzyl butyl phthalate

Oral LD50 2330 mg/kg (rat)

- 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.

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): From product as supplied: None.
- · Repeated dose toxicity: May damage fertility or the unborn child.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 Repr. 1
- 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: May damage fertility or the unborn child.
- · 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 Toxic for aquatic organisms
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for fish

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· Additional ecological information

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· General notes:

Do not allow product 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, IATA · IMDG	Exempt ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl butyl phthalate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl butyl phthalate), MARINE POLLUTANT
· Transport hazard class(es)	
· DOT · Class	Exempt
· ADR	
· Class	9 (M6) Miscellaneous dangerous substances and articles
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· Label	9		
· IMDG, IATA			
· Class	9 Miscellaneous dangerous substances and articles		
· Label	9		
· Packing group · DOT	Exempt		
· ADR, IMDG, IATA	III		
· Environmental hazards	Product contains environmentally hazardous substances: benzyl butyl phthalate		
· Marine pollutant:	Yes Symbol (fish and tree)		
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles		
Danger code (Kemler):EMS Number:	90 F-A,S-F		
· Transport in bulk according to Annex II of			
MARPOL73/78 and the IBC Code	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		

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.

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· TSCA (Toxic Substances Control Act) (Cont'd. of page 8) 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: 85-68-7 benzyl butyl phthalate · Carcinogenic categories · EPA (Environmental Protection Agency): 85-68-7 benzyl butyl phthalate · 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):

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

16 Other information

All ingredients are listed.

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 11/10/2016 / -

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

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

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vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health LDLo: Lowest Lethal Dose Observed Repr. 1: Reproductive toxicity – Category 1 Repr. 1B: Reproductive toxicity – Category 1B

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: 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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