Cargille Immersion Liquid Code 40BN

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Cargille

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 40BN - nD= 1.571-1.656

· Product code: 19531, 19533, 19535

· Recommended use and restriction on use

· Recommended use:

This SDS or an accurate copy is an integral part of using Immersion Liquid Code 40BN. Only use Immersion Liquid Code 40BN 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 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) 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

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Not regulated.
- · Hazard pictograms: Not regulated.
- · Signal word: None.
- Hazard statements: Not regulated.
- · Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients - Components: Trade Secret 40-60% (Cont'd. on page 2)

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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.

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:

Slight irritant effect on skin and mucous membranes.

Slight irritant effect on eyes.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

· 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

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information: Cool endangered receptacles with water in flooding quantities.

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6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Use personal protective equipment as required.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

· 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:

Use only in well ventilated areas.

Prevent formation of aerosols.

- · 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 oxidizers, strong acids, strong bases.

Store away from foodstuffs.

- Further information about storage conditions: Storage Temperatures: 65 90 °F / 18 32 °C.
- · 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/m³, 0.5 ppm			
TLV (USA)	Long-term value: 4.9 mg/m³, 0.5 ppm nonirradiated			
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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

- Exposure controls
- · Engineering measures Provide adequate ventilation.
- · 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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

- · Engineering controls: No relevant information available.
- Breathing equipment: Not required under normal conditions of use.
- · Protection of hands:



Protective gloves

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Eye protection:

Follow relevant national guidelines concerning the use of protective eyewear.



Safety glasses

· Body protection:

Not required under normal conditions of use.

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
Color: Yellow
Odor: Characteristic
Odor threshold: Not determined.

pH-value: Not determined.Melting point/Melting range: 6 °C (43 °F)

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· Boiling point/Boiling range:	>230 °C (>446 °F)			
· Flash point:	>113 °C (>235 °F) (Closed 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: Upper:	Not determined. Not determined.			
· Vapor pressure:	1.3322 hPa (1 mm Hg)			
 Density at 20 °C (68 °F): Relative density: Vapor density at 20 °C (68 °F): Evaporation rate: 	1.2 g/cm³ (10.014 lbs/gal) Not determined. <2.2 (Air = 1) <1.0 (water = 1.0)			
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.			
· Partition coefficient (n-octanol/water): Not determined.				
 Viscosity Dynamic: Kinematic at 25 °C (77 °F): Other information 	Not determined. 22 mm²/s 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 oxidizing agents.

Reacts with strong acids and alkali.

Reacts with certain metals.

Toxic fumes may be released if heated above the decomposition point.

- · Conditions to avoid: Excessive heat.
- · Incompatible materials: No relevant information available.
- · Hazardous decomposition products:

Under fire conditions only:

Carbon monoxide and carbon dioxide

Bromine compounds

Hydrogen bromide

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Hydrocarbons

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.

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): From product as supplied: None.
- · 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 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:

Toxic for water fleas Harmful to fish

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Additional ecological information

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

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. Residual materials should be treated as hazardous.

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

14 Transport information	
· UN-Number	Francet
· DOT · ADR, IMDG, IATA	Exempt UN3082
· UN proper shipping name	
· DOT	Exempt
· ADR, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPHENYL)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPHENYL), MARINE POLLUTANT
· Transport hazard class(es)	
· DOT	
· Class	Exempt
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· ADR				
· Class	9 (M6) Miscellaneous dangerous substances and articles			
· IMDG, IATA	9			
M. E				
· Class · Label	Miscellaneous dangerous substances and articles 9			
· Packing group · DOT · ADR, IMDG, IATA	Exempt III			
· Environmental hazards · Marine pollutant:	Product contains environmentally hazardous substances: Terphenyl Yes Symbol (fish and tree)			
 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Miscellaneous dangerous substances and articles 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			

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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)

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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

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

· 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: 1SBN: 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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