

Cargille Refractive Index Liquid Series B nD=1.657-1.700

Safety data sheet

Printing date: 26.08.2016 according to 1907/2006/EC Revision: 26.08.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

- · Trade name: Cargille Refractive Index Liquid Series B nD=1.657-1.700
- Product code: 18121, 18122, 18125, 1812X, 1812Y, 19122, 19123, 19124
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use SU24 Scientific research and development
- · Application of the substance / the mixture:

This SDS or an accurate copy is an integral part of using Refractive Index Liquid Series B. Only use Refractive Index Liquid Series B 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).

Conditions of Intended Use: (ABBR. C.I.U.) As an Optical Refractive Index Liquid at normal room pressure 101,32 kPa (760 mm Hg), temperature 18°C to 40°C (65°F to 104°F) in a non misted/non airborne state in a room having a 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 $\frac{1}{4}$ oz (7,4cc), 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.

- · Uses advised against: Contact manufacturer.
- · 1.3 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 compliance@cargille.com www.cargille.com

· 1.4 Emergency telephone number:

ChemTel Inc. (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



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· Signal word Warning

· Hazard-determining components of labelling:

1-iodonaphthalene

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Precautionary statements

P261 Avoid breathing mist/vapours/spray. P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

- · Labelling of packages where the contents do not exceed 125 ml
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

1-iodonaphthalene

- · Hazard statements None.
- · Precautionary statements None.
- · 2.3 Other hazards There are no other hazards not otherwise classified that have been identified.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· Components:

CAS: 90-14-2 1-iodonaphthalene

40-60%

· Additional information: For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures

- · 4.1 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.

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If skin irritation continues, consult a doctor.

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· 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; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Coughing

Dizziness

Irritating to eyes, respiratory system and skin.

Gastric or intestinal disorders when ingested.

· 4.3 Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

If necessary oxygen respiration treatment.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: None.
- · 5.2 Special hazards arising from the substance or mixture

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

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

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

- · 6.2 Environmental precautions Do not allow to enter sewers/ surface or ground water.
- · 6.3 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.

· 6.4 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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 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.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidising and acidic materials.

Store away from metals.

· Further information about storage conditions:

Keep container tightly sealed.

Storage Temperatures: 65 - 90 °F / 18 - 32 °C.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients 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.

- · **DNELs:** No further relevant information available.
- · PNECs: No further relevant information available.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Not required under normal conditions of use.

For large spills, respiratory protection may be advisable.

NIOSH or EN approved organic vapour respirator equipped with a dust/mist prefilter should be used.

Protection of hands:



Protective gloves

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Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection:

· Eye protection:

Protective work clothing

Protection may be required for spills.

Limitation and supervision of exposure into the environment:

No further relevant information available.

9.1 Information on basic physic Appearance	al and chemical properties	
Form:	Liquid	
Colour:	Yellow	
Odour:	Pungent	
Odour threshold:	Not determined.	
oH-value:	Not determined.	
Melting point/Melting range:	4 °C	
Boiling point/Boiling range:	>279 °C	
Flash point:	>93 °C (Open Cup)	
Flammability (solid, gaseous):	Not applicable.	
Auto/Self-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.	
Oxidising properties	Not determined.	
Vapour pressure:	1,33 hPa (1 mm Hg)	
Density at 20 °C:	1,59 g/cm ³	
Relative density:	Not determined.	
Vapour density:	1,0 (Air = 1.0)	
Evaporation rate:	<1,0 (n-Butyl Acetate = 1,0)	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	

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• Viscosity

Dynamic at 25 °C:

4 cSt

Kinematic: Not determined.

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

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

Reacts with strong acids and alkali.

Reacts with strong oxidising agents.

Reacts with certain metals.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials No further relevant information available.
- · 10.6 Hazardous decomposition products

Under fire conditions only:

Hydrohalogens

Halogenated hydrocarbons

Halogen gases.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification: None.
- · Primary irritant effect
- · Skin corrosion/irritation:

Causes skin irritation.

· Serious eye damage/irritation:

Causes serious eye irritation.

- · Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· Probable routes of exposure:

Ingestion.

Inhalation

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes, respiratory system and skin.
- · Repeated dose toxicity: No further relevant information available.

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- · Germ cell mutagenicity: Based on available data, the classification criteria are not met. (Cont'd. from page 6)
- · 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:

May cause respiratory irritation.

- · 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.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability Moderately /partly biodegradable
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

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

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed 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 packaging:
- · **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA

Not Regulated

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· 14.2 UN proper shipping name · DOT, ADR, IMDG, IATA	Not Regulated	
· 14.3 Transport hazard class(es)		
· DOT, ADR, IMDG, IATA · Class	Not Regulated	
· 14.4 Packing group · DOT, ADR, IMDG, IATA	Not Regulated	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to And of Marpol and the IBC Code	nex II Not applicable.	

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Carcinogenic Categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients are listed.
- · National regulations:
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

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

SECTION 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

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compliance and regulatory purposes.

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· Relevant phrases

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

· 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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