

SAFETY DATA SHEET

Cargille Refractive Index Liquid Series E nD=1.500-1.555

Version 1 · issued 22 September 2026

1. IDENTIFICATION**Product Identifiers**

Product Name	Cargille Refractive Index Liquid Series E nD= 1.500-1.555
Other Names	Product code: 18431, 18432, 1843X, 1843Y, 19462
Product Number(s)	IC1843X-E1.500, IC1843X-E1.505, IC1843X-E1.510, IC1843X-E1.515, IC1843X-E1.520, IC1843X-E1.525, IC1843X-E1.530, IC1843X-E1.535, IC1843X-E1.540, IC1843X-E1.545, IC1843X-E1.555

Recommended use of the chemical and restriction on use

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

Professional and R&D use only. Conditions of Intended Use: (ABBR. C.I.U.) As a 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 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.

Restrictions on use: Contact manufacturer.

Company Details

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

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

Label Elements

Signal Words	None
Hazard Statement(s)	None.
Precautionary Statement(s)	Not regulated.

Primary route(s) of entry

Generally inhalation and/or skin/eye contact depending on the form and handling

Environment

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
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None in reportable quantities.

4. FIRST AID MEASURES

Ingestion	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.
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Inhalation	Supply fresh air; consult doctor in case of complaints.
Skin Contact	Wash with soap and water. If skin irritation is experienced, consult a doctor.
Eye Contact	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Other Information	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: No relevant information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing equipment

Fire	Suitable extinguishing agents: Use fire fighting measures that suit the environment. For safety reasons unsuitable extinguishing agents: None.
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HAZCHEM	Not Stated
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Special protective equipment and precautions for fire fighters

Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

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	No special measures required.
Methods and materials for containment and clean up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations. 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

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	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 oxidizing agents. Store away from foodstuffs. Further information about storage conditions: Keep containers tightly sealed. Storage Temperatures : 39 - 42 °F / 4 - 6 °C. Specific end use(s): No relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards	No relevant information available.
Engineering controls	General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.
Personal protective equipment	
Eye and face protection	Safety glasses Follow relevant national guidelines concerning the use of protective eyewear.
Skin protection	Protective gloves

Body protection	Not required under normal conditions of use. Protection may be required for spills.
Respiratory protection	Not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	Liquid Colorless to pale yellow.
Odour	Sweetish
pH	Not determined.
Vapour Pressure	Not determined.
Density	Density at 20 °C (68 °F): 1.1 g/cm ³ (9.18 lbs/gal)
Boiling Point	>258 °C (>496 °F)
Melting Point	Not determined.
Solubility	Water: Slightly soluble.
Specific Gravity of Density	Relative density: Not determined.
Flash Point	>130 °C (>266 °F) (Open Cup)
Flammable (Explosive) Limits	Lower: Not determined. Upper: Not determined.
Ignition Temperature	410 °C (770 °F)

10. STABILITY AND REACTIVITY

Reactivity	No relevant information available.
Chemical stability	Stable under normal temperatures and pressures.
Possibility of hazardous reactions	Reacts with strong oxidizing agents. Toxic fumes may be released if heated above the decomposition point. Reacts with strong acids and alkali.
Conditions to avoid	No relevant information available.
Incompatible materials	No relevant information available.

11. TOXICOLOGICAL INFORMATION

Acute effects	Acute effects (acute toxicity, irritation and corrosivity): None. LD/LC50 values that are relevant for classification: None. · 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.
Eye contact	On the eye: Based on available data, the classification criteria are not met.
Skin contact	On the skin: Based on available data, the classification criteria are not met.
Chronic effects	Repeated dose toxicity: None. 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. 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.
Toxicity and irritation	Sensitization: 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

Ecotoxicity	Aquatic toxicity: No relevant information available.
Persistence and degradability	Persistence and degradability: No relevant information available.
Bioaccumulative potential	Bioaccumulative potential: No relevant information available.

Other adverse effects	Mobility in soil: No relevant information available. General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects: No relevant information available.
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13. DISPOSAL CONSIDERATIONS

General information

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. TRANSPORT INFORMATION

ADG label required

HAZCHEM Not Stated

UN Number Not regulated.

Proper shipping name Not regulated.

Transport hazard class Not regulated.

Packing group Not regulated.

Environmental hazard Marine pollutant: No

Special precautions for users Not applicable.

Additional information UN-Number, UN proper shipping name, Transport hazard class(es) and Packing group are stated for DOT, ADR, IMDG, IATA as: Not regulated.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

Other 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.
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16. OTHER INFORMATION

SDS preparation date	22 September 2026
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Comments

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 / - 05-09-2019

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

References

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/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

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of SDS ...