

SPI Supplies Division

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Manufacturer's CAGE: 1P573

Material Safety Data Sheet

Date Effective: April 18, 2012

[SPI Catalog#'s 04089F-AB, 04089H-AB](#)

[9999902/4089/7, 9999902/4089/30, 19462/4089/120](#)

Cargille Series E Refractive Index Fluid

RI range 1.575 – 1.640

Section 1: Identification

Chemical Name/Synonyms..... Hydrogenated Terphenyl, Terphenyl, 1-Bromonaphthalene

Chemical family..... organic mixture

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.....Cargille Series E Refractive Index Fluid, RI = 1.1.575-1.640

CAS #'s.....Mixture

Chemical Formula.....Not available

Conditions of intended use:

As an optical refractive index liquid at normal room pressure (760 mm Hg) and temperature (65-104°F or 18-40°C) in a non-misted and non-airborne state in a room having normal ventilation (e.g. twice per hour) in a trained and supervised laboratory or industrial setting using standard good laboratory and management procedures.

GHS Classification:

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity – single exposure (Category 3)

GHS Label Elements

Pictogram



Signal word:.....warning

Hazard Statements:

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P273 Avoid release to the environment
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous Material Information System USA

Health.....2
 Fire Hazard.....1
 Reactivity.....0

NFPA Rating (estimated)

Health.....2
 Flammability.....1
 Reactivity.....0

Section 2: Composition

Component Name	CAS#	EC#	OSHA PEL	ACGIH TLV
Hydrogenated Terphenyl	61788-32-7	362-967-7	NE	5 mg/m3
Terphenyl	26140-60-3	247-477-3	5 mg/m3	5 mg/m3
1-Bromonaphthalene	90-11-9	201-965-2	NE	5 mg/m3
Proprietary additives	NL	NL	NL	NL

NOTE: Product is normally sold in 0.25 ounce to 16 ounce quantities. It is used as a single drop to a few cc's.

NE = Not established

NL = Not listed

NDF = Not data found

Section 3: Hazard Identification

Emergency overview: This material is not hazardous by OSHA Hazard Communication definition

Signal Word: CAUTION!

Physical Health Hazards: None known

Physical state: Liquid

Color: Colorless to pail yellow

Odor: Sweet balsamic wood odor

Odor threshold: No data available

Potential Health Effects:

Routes of exposure: Eye contact, ingestion, skin contact

Skin contact: No data available

Inhalation: No data available

Eye contact: No data available

Ingestion: Ingestion is unlikely

Chronic Health Effects Summary: No known chronic health effects.

Conditions Aggravated by Exposure: No known conditions are aggravated by this material.

Section 4: First Aid Measures

Inhalation: If symptoms are experienced, move victim to fresh air, if symptoms persist, obtain medical attention.

Eye Contact: Wash eyes with clean low-pressure water for at least fifteen minutes. Contact a physician in any case, preferably an eye specialist.

Skin Contact: Wash affected area with soap and water.

Ingestion: Adverse health effects due to ingestion are not anticipated. If gastric irritation or discomfort persists, seek medical advice.

Section 5: Fire Fighting Measures

Flammability classification: Not flammable.

Flash Point/Method: >113°C (235°F) / Cleveland Open Cup (COC)

Auto-Ignition Temperature: Not known

Flammable Limits:

Lower: Not available

Upper: Not available

Hazardous Combustion Products: Not known at this time.

Special Conditions to Avoid: Not known

Extinguishing Media:

Small fires: Use CO₂, foam, dry chemical, or any Class B agent.

Large fires: Same as above.

Fire Fighting Instructions: Protective Equipment/Clothing: Wear a NIOSH approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

Instructions: Use flooding quantities of water until well after fire is out.

Section 6: Accidental Release Measures

Release response: Pick up and retain for recycle or disposal. Do not flush spilled material to the sewer or the environment.

Reportable Quantities: See Section 15: Regulatory information

Section 7: Handling and Storage

Respirator: Not necessary

Ventilation:

Local: Recommended

Mechanical: Not necessary

Skin: Polyethylene gloves recommended

Eyes: Wear approved eye protection when working with any laboratory chemicals or reagents.

Section 8: Exposure Controls and Personal Protection

Engineering Controls: None specified

Personal Protection:

Eyes: Always use approved safety glasses.

Section 9: Physical and Chemical Properties

Appearance and color: Light yellow liquid

Boiling Point/Range: > 230° C (450° F)

pH: Not applicable

Vapor Pressure: 760 mm Hg @ 23° C/73° F... ca 1

Vapor Density: 73° F < 2.2

Viscosity: Not applicable

Specific Gravity (water = 1) @ 23° C/73° F: 1.1 to 1.4

Water solubility: Slight

Octanol/Water Partition Coefficient in Kow: Specific value not known

Melting/Freezing Point: approximately 42° F

Evaporation Rate (mineral oil = 1, 760 mm Hg, 73° F/23° C): ~1

Section 10: Stability and Reactivity

Chemical Stability: The product is stable

Conditions to Avoid: Not known

Incompatibility with: Strong oxidizing agents.

Hazardous Polymerization: Will not occur

Reactions with Air and Water: Does not react with air, water or other common materials.

Section 11: Toxicological Information

Effects of over exposure:

Ingestion: Low order toxicity, first aid not normally needed.

Inhalation: May cause headache and nausea

Skin contact: No data available

Eye contact: No data available

Carcinogenicity: Not carcinogenic

Threshold Limit Value:

AGCIH TLV: TWA:

5 mg/m³

OSHA PEL Ceiling:

Terphenyl: 5 mg/m₃

Chronic Effects/Carcinogenicity: None expected

Reproductive/Development Effects: No reproductive or developmental effects are expected.

Section 12: Ecological Information

Exotoxicity: Exotoxicity is expected to be low based on the low water solubility of this material.

Environmental Fate: No information found in our selected references.

Bio-accumulation: Not expected to occur.

Section 13: Disposal Considerations

This material is NOT classified as a hazardous material by RCRA. Use only licensed transporters and permitted disposal facilities and conform to all laws.

Recycle to process, if possible.

Section 14: Transport Information

Proper Shipping Name: Not specified

DOT Hazard Class: Non-Regulated

UN/NA ID: Not Regulated

Packing Group: Not Applicable

Labels: Not Regulated

Marine Pollutant: No

NAER Guidebook: Not Regulated

DOT Status: Not Regulated

Section 15: Regulatory Information

TSCA: All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification Rule, they will be listed below.

TSCA 12(b) Component	Listed under TSCA Section
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SARA-Section 313 Emissions Reporting:

Component	Reporting Threshold
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SARA-Section 311/312: No components present in this product are subject to the reporting requirements of this statute.

CERCLA Hazardous Substances and their Reportable Quantities:

Component	Reportable Quantity
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California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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