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**Manufacturer's CAGE: 1P573**



# Material Safety Data Sheet

[SPI # CAR0608-AB Cargille® Optical Gel, Code 0608](#)

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## Section 1: Identification

Date Effective..... January 8, 2009  
 (most recent revision)

Chemical Name/Synonyms... Optical gel

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.... SPI # CAR0608-AB  
 Cargille® Optical Gels

Synonyms..... Cargille® Optical Gel  
 Code 0608

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## Section 2: Composition

Component Name	CAS #	Percent	EU #
Silica, amorphous	Trade secret	N/A	N/A
Aliphatic Hydrocarbons	Trade secret	N/A	N/A

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## Section 3: Hazard Identification

**Emergency overview:** Routes of entry include inhalation, skin and eye contact.

This product may be irritating to eyes and skin. May produce a laxative effect if ingested.

**Appearance:** Water white gel.

**Flash Point:** >473° F / >245° C (COC)

**Warning!**

**Target Organs:** N/A

**Potential Health Effects:** There are no known acute or chronic adverse health effects attributed to this product during normal conditions of use.

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## Section 4: First Aid Measures

**Eyes:** Flush eyes with copious amounts of water for at least 15 minutes, holding eyes open with fingertips. Consult a physician.

**Skin:** Wash affected area with soap and water. Launder all contaminated clothing before reuse. If irritation or discomfort persists, consult a physician.

**Ingestion:** If victim is conscious, provide water to wash out mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

**Inhalation:** Remove victim to fresh air. If concern arises, consult a physician.

**Notes to Physician:** Treat supportively and symptomatically.

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## Section 5: Fire Fighting Measures

**General Information:** Wear self-contained breathing apparatus and full protective clothing.

**Auto Ignition Temperature:** N/A

**Flash Point:** >473° F / >245° C (COC).

**Flammability:** N/A

**Hazardous Combustion Products:** N/A

**Unusual Fire/Explosion Hazards:** Slight hazard when exposed to heat or flame.

**Extinguishing Media:** Treat as petroleum grease/oil fire. Use foam, carbon dioxide, or dry chemical appropriate for this type of fire.

**Protective Measures:** NIOSH/MSHA approved self contained breathing apparatus when fighting fires, along with full protective clothing. Do not breathe vapors or fumes in fire conditions.

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## Section 6: Accidental Release Measures

**Spills/Leaks:** In the case of a spill or leak, absorb with an absorbent material and place in a plastic (polyethylene or polypropylene) container. Keep container sealed for disposal.

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## Section 7: Handling and Storage

**Handling:** Always wear appropriate safety equipment when handling this product, including chemical splash goggles (or safety glasses with side shields) and chemical resistant gloves.

**Storage:** Store in closed containers between 39-104° F. Keep away from direct sunlight.

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## Section 8: Exposure Controls and Personal Protection

**Engineering Controls:** Local exhaust is not required, but recommended. Safety shower and eye wash stations should be readily available in all laboratory settings.

### Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL Ceiling
Silica, amorphous	20 mppcf	20 mppcf
Aliphatic Hydrocarbons	5 mg/m <sup>3</sup>	N/A

### Other Recommendations

Chemical Name	ACGIH Respirable Dust	ACGIH Total Dust
Silica, amorphous	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

### Personal Protective Equipment

**Eyes:** Chemical splash goggles or safety glasses with side shields.

**Skin:** Plastic surgical gloves or other chemical resistant gloves.

**Clothing:** Lab coat or lab apron with long sleeves appropriate to prevent skin contact.

**Respirators:** NIOSH or MESA approved self-contained breathing apparatus should be used when airborne exposure limits are exceeded.

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## Section 9: Physical and Chemical Properties

**Physical State:** Gel.

**Appearance:** Water white gel.

**Odor:** Odorless

**pH:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Evaporation Rate:** <1 @ 73° F & 760 mm Hg (mineral oil = 1).

**Viscosity:** N/A

**Boiling Point:** >781° F / >416° C

**Freezing/Melting Point:** <-88° F

**Autoignition Temperature:** N/A

**Flash Point:** >473° F / 245° C (COC).

**Decomposition Temperature:** N/A

**Explosion Limits**

**Lower:** N/A

**Upper:** N/A

**Solubility in water:** Insoluble.

**Specific Gravity/Density:** 0.879

**Molecular Formula:** Mixture.

**Molecular Weight:** N/A

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## Section 10: Stability and Reactivity

**Chemical Stability:** Stable.

**Conditions to Avoid:** N/A

**Incompatibility with Other Materials:** None.

**Hazardous Decomposition of Products:** N/A

**Hazardous Polymerization:** Will not occur.

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## Section 11: Toxicological Information

No toxicological information is available at this time.

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## Section 12: Ecological Information

No ecological information is available at this time.

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## Section 13: Disposal Considerations

**Waste Disposal:** Dispose of this product in accordance with all local, state, and federal environmental regulations.

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## Section 14: Transport Information

**US DOT Hazard Class:** Not regulated.

**IATA (for international shipments):** Not regulated.

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## Section 15: Regulatory Information

### United States

**OSHA:** This product is not listed as an OSHA carcinogen.

### European/International Regulations

#### Safety Phrases:

S2 Keep out of the reach of children

S24/25 Avoid contact with skin and eyes

S36/37 Wear suitable protective clothing and gloves.

### Canada

**DSL:** N/A

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## Section 16: Other Information

If this product should be used in ways that are outside of the intended applications in scanning electron microscope laboratories, and if it is going to be formulated into some other system, so that it becomes just another component of that other system, read the MSDS sheets for the other components before blending as the resulting mixture may have the hazards of all of its parts.

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