



Cargille Laboratories

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Material Safety Data Sheet

Revision Summary

Issue Date : 2/13/2009
 Supersedes : 5/5/2008

Section 1 : Product and Company Identification

Product Name : Cargille Gem Refractometer Liquid 1.80+ Cat. No. 19160, 19606

Conditions of Intended Use : (ABBR. C.I.U.) As an Optical Coupling Liquid for use with a refractometer at normal room pressure (760 mm Hg), temperature 68 °F to 80 °F in a non misted / non airborne state in a room having ventilation of 5 air changes / HR., in a trained and supervised laboratory / industrial setting using standard GL / GM procedures. See sections 7 and 8.

Manufacturer :
 Cargille Laboratories
 55 Commerce Rd
 Cedar Grove, NJ 07009
 USA

Emergency Contact Numbers :
 973-239-6633 - Cargille Laboratories (8:30 AM - 4:30 PM ET Weekdays)
 800-424-9300 - 24 Hour Chemtrec

Abbreviations used in this MSDS

C.I.U. - Conditions of Intended Use
 C.O.C. - Cleveland Open Cup
 GL / GM - Good Laboratory / Good Manufacturing Procedures
 N/A - Not Applicable
 N.D.A. - No Data Available
 N.E. - Not Established
 TR.S. - Trade Secret

Section 2 : Hazardous Composition Identification

<u>Components</u>	<u>Common Name (s)</u>	<u>OSHA PEL Ceiling</u>	<u>ACGIH TLV T.W.A.</u>	<u>Other Limits Recommended</u>
Diiodomethane	Methylene iodide	N.E.	Estimated 25 ppm (247 mg / cubic meter * *)	

* * PEL Ceiling & TLV T.W.A. If any should not occur if C.I.U. and sections 7 & 8 followed.



Section 3 : Hazards Identification

Emergency Overview :	This product is not expected to present any unusual hazards in proper use as per the C.I.U.
Potential Health Effects :	None known at C.I.U.
Chronic Effects :	None known at C.I.U.

Section 4 : First Aid Measures

Eyes :	Flush with water for a minimum of 15 minutes. Consult physician.
Skin Exposure :	Prompt soap and water wash.
Inhalation :	Remove to fresh air.
Ingestion :	Wash out mouth. Consult physician immediately.
Special Notes :	N/A

Section 5 : Fire Fighting Measures

Flash Point:	> 230 °F (> 110 °C) C.O.C.
LEL / UEL :	N.D.A.
Extinguishing Media:	Treat as petroleum grease / oil fire, use CO ₂ , foams, water spray.
Personal Protective Equip. :	Use N.I.O.S.H. / MESA approved S.C.B.A. in fighting fires involving chemicals. Avoid fumes.
Special Procedures :	None
Unusual Fire and Explosion Hazards:	If involved in fire, Iodide fumes possible.
Hazardous Decomposition :	N.D.A.

Section 6 : Accidental Release Measures

Evacuation Procedures & Safety :	None necessary due to the small quantities involved and the physical properties of the material involved.
Containment of Spill :	Absorb using lab wipes. Place in plastic (polyethylene or polypropylene) container, cap or twist tie the closure.
Cleanup and Disposal of Spill :	All chemical disposals must be in accordance with current Local, State, Provincial, National and International regulations.
Environmental & Regulatory Reporting :	Product is insoluble in water. Prevent from entering sewers or drains.



Section 7 : Handling and Storage

Min / Max Storage Temperature : 70 °F and 80 °F (21 °C and 27 °C)
 Store in amber polypropylene or glass bottle, tightly closed, away from light.

Handling : Avoid direct sunlight; use ventilation such that no one can smell this liquid.

Storage :

Section 8 : Exposure Controls / Personal Protection

Ingestion : Wash out mouth. Consult physician immediately.
 Eye Contact : Flush with water for a minimum of 15 minutes. Consult physician.
 Skin Contact : Prompt soap and water wash.
 Respiratory Protection : Remove to fresh air.
 Exposure Guidelines :

(* = Not mandatory except as good laboratory and industrial practices. Always use good work practices as to housekeeping, personal hygiene, use of chemical lab apron, splash goggles, avoidance of vapors, prolonged or repeated skin contact.)

<u>Hazardous Components</u>	<u>Common Name (s)</u>	<u>OSHA PEL Ceiling</u>	<u>ACGIH TLV T.W.A.</u>	<u>Other Limits Recommended</u>
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Section 9 : Physical and Chemical Properties

Physical State : Liquid
 Color : Burgundy
 Odor : Characteristic Odor

Specific Gravity (Water = 1) Temp. 23 °C / 73 °F : 3.14

Vapor Density (Air = 1) at (mm Hg & temp.) 760 73 °F : ca 9

Vapor Pressure in mm Hg (temp.) 73 °F : ca 1.5

Boiling Point at 760 mm Hg 181 °C : 358 °F

Solubility in Water at (mm Hg & temp.) 760 73 °F : Slight

Evaporation rate at 760 mm Hg & 23 °C / 73 °F (water = 1) : ca 1

Melting Point < 20 °C : < 68 °F



Section 10 : Stability and Reactivity

Chemical Stability :	Stable
Hazardous Polymerization :	Will not occur
Conditions to Avoid :	None
Chemical Incompatibility :	Long term contact with Aluminum and other metal. Strong oxidizing agents.
Hazardous Decomposition :	N.D.A.

Section 11 : Toxicological Information

Acute Data

Ingestion :	None Known at C.I.U.
Skin Exposure :	None Known at C.I.U.
Eye Contact:	None Known at C.I.U.
Inhalation :	None Known at C.I.U.

Chronic Data

Not likely at C.I.U.
No evidence of carcinogenic activity.
No evidence of mutagenic activity.

Section 12 : Ecological Information

Eco-Acute Toxicity :	N.D.A.
Environmental Fate :	N.D.A.

Section 13 : Disposal Considerations

Procedure :	All chemical disposals must be in accordance with current Local, State, Provincial, National and International regulations.
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Section 14 : Transportation Information

Proper Shipping Name :	N/A
Hazard Class :	N/A
UN Number :	This product is not regulated by DOT
Special Information :	N/A
Packing Group :	N/A

Section 15 : Regulatory Information

Workplace Classification WHMIS:	Product is not considered hazardous
US & Puerto Rico TSCA Status :	Yes Toxic Substances Control Act Inventory
Canada DSL :	Yes Domestic Substances List
Europe EINECS:	Yes European Inventory of New and Existing Chemicals
Japan ENCS:	Yes Japanese Inventory of Existing and New Chemical Substances



Section 16 : Other Information

NFPA Ratings :

Health	Flammability	Reactivity	Special Provisions
1	1	0	

HMIS Ratings:

Health	Flammability	Reactivity	PPI
1	1	0	

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