



**CARGILLE LABORATORIES, INC.**

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**CATALOG #19160, 19606**

IDENTITY ( AS USED ON LABEL AND MANUF. LITERATURE )  <b>CARGILLE GEM REFRACTOMETER LIQUID 1.80+</b>	NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.
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<b>SECTION 1</b>		
MANUFACTURER'S NAME CARGILLE LABORATORIES, INC.	EMERGENCY TELEPHONE NUMBER WEEKDAY 973 - 239 - 6633 24 HR CHEMTREC 800 - 424 - 9300	
ADDRESS ( NUMBER, STREET, CITY, STATE, AND ZIP CODE ) 55 COMMERCE ROAD	TELEPHONE NUMBER FOR INFORMATION 973 - 239 - 6633	
CEDAR GROVE, NJ 07009	DATE PREPARED JUNE 3, 2005	SUPERCEDES PRIOR DATED MSDS FOR THIS MATERIAL
SIGNATURE OF PREPARER ( OPTIONAL )		

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 THE INFORMATION PRESENTED AND CARGILLE LABORATORIES ASSUMES NO RESPONSIBILITY FOR THE RESULTS OF THE USE OF THIS PRODUCT. THIS INFORMATION IS FURNISHED UPON THE CONDITION THAT THE PERSON RESPONSIBLE FOR ITS USE SHALL MAKE HIS OR HER OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR HIS OR HER PARTICULAR PURPOSE.

CONDITIONS OF INTENDED AND NORMAL 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 AIRBORN 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

<b>SECTION 2 - HAZARDOUS INGREDIENTS</b>		<b>SPECIFIC CHEMICAL IDENTITY INFORMATION</b>			
HAZARDOUS COMPONENTS	( COMMON NAME ( S ) )	OSHA PEL CEILING	ACGIH TLV T.W.A.	OTHER LIMITS RECOMMENDED	% (OPTIONAL)
DIODOMETHANE	METHYLENE IODIDE		ESTIMATED 25 ppm ( 247 mg / CUBIC METER * )		

\*PEL CEILINGS & TLV T.W.A.s IF ANY SHOULD NOT OCCUR IF C.I.U. AND SECTIONS 7 & 8 FOLLOWED.

NOTE: : PRODUCT NORMALLY SOLD IN 10 g TO 4 OZ. QUANTITIES. USED IN SINGLE DROP TO A FEW CUBIC CENTIMETERS PER APPLICATION. SEE REQUISITIONER FOR SPECIFIC QUANTITIES INVOLVED.

<b>SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS</b>				
BOILING POINT AT 760 mm Hg 181 °C	358 °F	SPECIFIC GRAVITY ( H <sub>2</sub> O = 1 ) TEMP. 23 °C / 73 °F		3.14
VAPOR PRESSURE IN mm Hg ( TEMP. ) 73 °F	ca 1.5	MELTING POINT		< 20 °C < 68 °F
VAPOR DENSITY ( AIR = 1 ) AT ( mm Hg & TEMP. ) 760 73 °F	ca 9	EVAPORATION RATE AT 760 mm Hg & 23 °C / 73 °F ( WATER = 1 )		ca 1
SOLUBILITY IN WATER AT ( mm Hg & TEMP. ) 760 73 °F	SLIGHT	APPEARANCE AND ODOR: BURGUNDY, CHARACTERISTIC ODOR		

<b>SECTION 4 - FIRE AND EXPLOSION HAZARD DATA</b>			
FLASH POINT ( CUP METHOD USED ): > 230 °F ( > 110 °C ) C.O.C.	FLAMMABLE LIMITS	LEL N.D.F.	UEL N.D.F.
EXTINGUISHING MEDIA: TREAT AS PETROLEUM GREASE / OIL FIRE, USE CO <sub>2</sub> , FOAMS, WATER SPRAY.			
SPECIAL FIRE FIGHTING PROCEDURES: USE N.I.O.S.H. / MESA APPROVED S.C.B.A. IN FIGHTING FIRES INVOLVING CHEMICALS. AVOID FUMES.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: IF INVOLVED IN FIRE, IODINE FUMES POSSIBLE.			

ABBREVIATIONS: N.A. = NOT APPLICABLE; N.D.F. = NO DATA FOUND; TR.S. = TRADE SECRET; N.E. = NOT ESTABLISHED;  
C.I.U. = CONDITIONS OF INTENDED USE; < = LESS THAN; > = GREATER THAN.

<b>SECTION 5 - REACTIVITY DATA</b>				
STABILITY	UNSTABLE			
	STABLE	YES		
INCOMPATIBILITY ( MATERIALS AND / OR CONDITIONS TO AVOID ) LONG TERM CONTACT WITH ALUMINUM AND OTHER METALS. STRONG OXIDIZING AGENTS.				
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	
	WILL NOT OCCUR	X	NONE	
<b>SECTION 6 - HEALTH HAZARD DATA</b>				
ROUTE ( S ) OF ENTRY: ( NOT LIKELY AT C.I.U. )	INHALATION? YES	SKIN? YES	MUCOUS MEMBRANES / EYES? YES	INGESTION? POSSIBLE
HEALTH HAZARDS ( ACUTE AND CHRONIC ). NONE KNOWN AT C.I.U.				
CARCINOGENICITY LISTED:	NTP? NO	IARC MONOGRAPHS? NO	OSHA CARCINOGEN? NO	
SIGNS AND SYMPTOMS OF EXPOSURE OILY FEEL, CHARACTERISTIC ODOR ON HANDS OR CLOTHING; IRRITATION OF SKIN, EYES, OR MUCOUS MEMBRANES; OVER EXPOSURE MAY CAUSE SEDATION, INTOXICATION, NOT LIKELY AT C.I.U. AND SECTION 7 & 8 CONDITIONS.				
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE N.D.F.				
EMERGENCY AND FIRST AID PROCEDURES: INCLUDE POSSIBLE MATERIAL THAT MAY HAVE BEEN MIXED WITH LIQUID DURING USE. INHALATION – REMOVE TO FRESH AIR.				
SKIN – PROMPT SOAP AND WATER WASH.				
EYES – FLUSH WITH WATER FOR A MINIMUM OF 15 MINUTES. CONSULT PHYSICIAN.				
INGESTION – WASH OUT OF MOUTH. CONSULT PHYSICIAN IMMEDIATELY.				
<b>SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE – FOLLOW C.I.U. SEE SECTION 1</b>				
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED ABSORB, PLACE IN POLYPROPYLENE CONTAINER, CAP OR TWIST TIE CLOSURE. ( SEE SECTION 8 )				
WASTE DISPOSAL METHOD: ALL CHEMICAL DISPOSALS MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.				
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING STORE BETWEEN 70 °F AND 80 °F ( 21 °C AND 27 °C ) STORE IN AMBER POLYPROPYLENE OR GLASS BOTTLE, TIGHTLY CLOSED, AWAY FROM LIGHT.				
OTHER PRECAUTIONS AVOID DIRECT SUN LIGHT; USE VENTILATION SUCH THAT NO ONE CAN SMELL THIS LIQUID.				
<b>SECTION 8 - CONTROL MEASURES; WHEN USED AS INTENDED ( SEE SECTION 1 )</b>				
RESPIRATORY PROTECTION ( SPECIFY TYPE ) SEE "VENTILATION"				
VENTILATION	LOCAL EXHAUST * HOOD WITH 80 – 100 FPM	SPECIAL	N.A.	
	MECHANICAL ( GENERAL ) 5 AIR CHANGES / HR.	OTHER	N.A.	
PROTECTIVE GLOVES	MANDATORY ( SURGICAL TYPE )	EYE PROTECTION	*	
OTHER PROTECTIVE CLOTHING OR EQUIPMENT *				
* = NOT MANDATORY EXCEPT AS GOOD LABORATORY INDUSTRIAL PRACTICES. ALWAYS USE GOOD HYGIENIC WORK / PRACTICES AS TO HOUSEKEEPING, PERSONAL HYGIENE, USE OF CHEMICAL LAB APRON AND SPLASH GOGGLES, AVOIDANCE OF VAPORS, PROLONGED AND REPEATED SKIN CONTACT.				
SPECIAL PRECAUTIONS N.A.				