



CARGILLE LABORATORIES, INC.

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CATALOG #18121, 18122, 18125, 1812X, 1812Y, 19122, 19123, 19124

IDENTITY (AS USED ON LABEL AND MANUF. LITERATURE) CARGILLE REFRACTIVE INDEX LIQUID SERIES B RANGE $n_D = 1.657 - 1.700$	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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SECTION 1	
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 CEDAR GROVE, NJ 07009	TELEPHONE NUMBER FOR INFORMATION 973 - 239 - 6633 DATE PREPARED JUNE 3, 2005 SIGNATURE OF PREPARER (OPTIONAL)
	SUPERCEDES PRIOR DATED MSDS FOR THIS MATERIAL

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 REFRACTIVE INDEX LIQUID AT NORMAL ROOM PRESSURE (760 mm Hg), TEMPERATURE 65 °F TO 104 °F IN A NON MISTED / NON AIRBORN STATE IN A ROOM HAVING NORMAL AIR CHANGES, (2) / HR., IN A TRAINED AND SUPERVISED LABORATORY / INDUSTRIAL SETTING USING STANDARD GL / GM PROCEDURES. SEE SECTIONS 7 AND 8

SECTION 2 - HAZARDOUS INGREDIENTS		SPECIFIC CHEMICAL IDENTITY INFORMATION			
HAZARDOUS COMPONENTS	(COMMON NAME (S))	OSHA PEL CEILING	ACGIH TLV T.W.A.	OTHER LIMITS RECOMMENDED	% (OPTIONAL)
	1 - IODONAPHTHALENE			5 mg / CUBIC METER *	
	1 - BROMONAPHTHALENE	N.E.		5 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 ¼ OZ. TO 16 OZ. QUANTITIES. USED IN SINGLE DROP TO A FEW CUBIC CENTIMETERS PER APPLICATION. SEE REQUISITIONER FOR SPECIFIC QUANTITIES INVOLVED.

SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS			
BOILING POINT AT 760 mm Hg > 279 °C	> 534 °F	SPECIFIC GRAVITY (H ₂ O = 1) TEMP. 23 °C / 73 °F	1.49 TO 1.75
VAPOR PRESSURE IN mm Hg (TEMP.) 73 °F	ca 1	MELTING POINT	ca 39 °F
VAPOR DENSITY (AIR = 1) AT (mm Hg & TEMP.) 760 73 °F	ca 1	EVAPORATION RATE AT 760 mm Hg & 23 °C / 73 °F (MINERAL OIL = 1)	ca 1
SOLUBILITY IN WATER AT (mm Hg & TEMP.) 760 73 °F	PRACTICALLY INSOLUBLE	APPEARANCE AND ODOR YELLOW OILY LIQUID, PUNGENT TO MOTH BALL ODOR	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (CUP METHOD USED) > 199 °F. (> 93 °C) C.C.	FLAMMABLE LIMITS	LEL N.D.F.	UEL N.D.F.
EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES UNUSUAL FIRE AND EXPLOSION HAZARDS	CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. NONE FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.		

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.

SECTION 5 - REACTIVITY DATA				
STABILITY	UNSTABLE			
	STABLE	YES		
INCOMPATIBILITY (MATERIALS AND / OR CONDITIONS TO AVOID) STRONG OXIDIZERS, HEAT ABOVE 150 °F. COMBUSTION WILL PRODUCE CARBON DIOXIDE AND PROBABLY CARBON MONOXIDE.				
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	
	WILL NOT OCCUR	X	N.A.	
SECTION 6 - HEALTH HAZARD DATA				
ROUTE (S) OF ENTRY: (NOT LIKELY AT C.I.U.)	INHALATION? YES	SKIN? SLIGHT	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, IF LIQUID IS MISTED OR ABOVE 150 °F (NOT A C.I.U.) HEADACHES AND NAUSEA POSSIBLE.				
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 – IF CONCERN ARISES REMOVE TO FRESH AIR AND ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION.				
SKIN & CLOTHES – PROMPT SOAP AND WATER WASH – CALL PHYSICIAN IF SKIN IS IRRITATED.				
EYE - FLUSH WITH WATER, SLIGHT TEMPORARY IRRITATION POSSIBLE (CALL PHYSICIAN).				
INGESTION – DO NOT INDUCE VOMITING. DRINK 1 – 2 GLASSES OF WATER OR MILK. CALL PHYSICIAN.				
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE – FOLLOW C.I.U. SEE SECTION 1				
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED ABSORB, PLACE IN PLASTIC (POLYETHYLENE OR POLYPROPYLENE) CONTAINER, CAP OR TWIST TIE CLOSURE WASH AREA WITH DETERGENT (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 65 °F AND 90 °F (18 °C AND 32 °C) KEEP FROM CONTACT WITH OXIDIZING MATERIALS.				
OTHER PRECAUTIONS AVOID CONTINUAL DIRECT LIGHT.				
SECTION 8 - CONTROL MEASURES; WHEN USED AS INTENDED (SEE SECTION 1)				
RESPIRATORY PROTECTION (SPECIFY TYPE) SEE "VENTILATION"				
VENTILATION	LOCAL EXHAUST * MANDATORY IF A WORKER IS SENSITIVE TO ODOR	SPECIAL N.A.		
	MECHANICAL (GENERAL) *	OTHER NORMAL ROOM AIR CHANGE / HR (2)		
PROTECTIVE GLOVES * SURGICAL TYPE OVER POLYETHYLENE TO INCREASE MANUAL DEXTERITY	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.				