



**CARGILLE LABORATORIES, INC.**

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**CATALOG #18431, 18432, 1843X, 1843Y, 19461, 19462**

IDENTITY ( AS USED ON LABEL AND MANUF. LITERATURE ) <b>CARGILLE REFRACTIVE INDEX LIQUID SERIES E RANGE <math>n_D = 1.440 - 1.555</math></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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**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	TELEPHONE NUMBER FOR INFORMATION 973 - 239 - 6633	
CEDAR GROVE, NJ 07009	DATE PREPARED MAY 5, 2008	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 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)
	NONE AT C.I.U.				

\*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 1/4 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 > 258 °C	> 496 °F	SPECIFIC GRAVITY ( H <sub>2</sub> O = 1 ) TEMP. 23 °C / 73 °F	ca 1.1
VAPOR PRESSURE IN mm Hg ( TEMP. ) 73 °F	ca .5	MELTING POINT	N.D.F.
VAPOR DENSITY ( AIR = 1 ) AT (mm Hg & TEMP. ) 760 73 °F	= OR > 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	SLIGHTLY SOLUBLE	APPEARANCE AND ODOR COLORLESS TO PALE YELLOW LIQUID, SWEET BALSAMIC WOOD ODOR	

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT ( CUP METHOD USED ) 275 °F ( 135 °C ) C.C.	FLAMMABLE LIMITS	LEL N.D.F.	UEL N.D.F.
EXTINGUISHING MEDIA TREAT AS PETROLEUM GREASE / OIL FIRE. USE FOAM, DRY CHEMICAL, CARBON DIOXIDE OR ANY CLASS B EXTINGUISHING AGENT.			
SPECIAL FIRE FIGHTING PROCEDURES NONE			
UNUSUAL FIRE AND EXPLOSION HAZARDS NONE			

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 ) STRONG OXIDIZERS.				
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? SLIGHT	SKIN? SLIGHT	MUCOUS MEMBRANES / EYES? SLIGHT	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				
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. CONSULT PHYSICIAN.				
SKIN & CLOTHES – PROMPT SOAP AND WATER WASH, FLUSH WITH LARGE QUANTITIES OF WATER.				
EYE - FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. CONSULT PHYSICIAN.				
INGESTION – ADMINISTER WATER OR MILK. CONSULT PHYSICIAN.				
<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 PLASTIC ( POLYETHYLENE OR 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 65 °F AND 90 °F ( 18 °C AND 32 °C )				
AVOID OPEN FLAMES AND OTHER SIMILAR SOURCES OF IGNITION.				
OTHER PRECAUTIONS AVOID CONTINUAL DIRECT LIGHT.				
<b>SECTION 8 - CONTROL MEASURES; WHEN USED AS INTENDED ( SEE SECTION 1 )</b>				
RESPIRATORY PROTECTION ( SPECIFY TYPE ) SEE "VENTILATION"				
VENTILATION	LOCAL EXHAUST	*	SPECIAL	N.A.
	MECHANICAL ( GENERAL )	*	OTHER	N.A.
PROTECTIVE GLOVES *	SURGICAL TYPE OVER POLYETHYLENE TO INCREASE MANUAL DEXTERITY			EYE PROTECTION SAFETY GLASSES
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.				