

Services to the Sciences Since 1924

CARGILLE LABORATORIES, INC.

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

IDENTITY (AS USED ON LABEL AND MANUF. LITERATURE)	NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT
CARGILLE REFRACTIVE INDEX LIQUID	APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE
SERIES E RANGE $n_0 = 1.440 - 1.555$	MARKED TO INDICATE THAT.

SECTION 1					
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NUMBER				
CARGILLE LABORATORIES, INC.	WEEKDAY 973 - 239 - 6633 24 HR CHEMTREC 800 - 424 - 9300				
ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE)	TELEPHONE NUMBER FOR INFORMATION 973 – 239 - 6633				
55 COMMERCE ROAD	DATE PREPARED	SUPERCEDES PRIOR DATED			
	JUNE 2, 2011	MSDS FOR THIS MATERIAL			
CEDAR GROVE, NJ 07009	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 - HA	AZARDOU	S INGREDIENTS			SPECIFIC	CHEMICAL	IDENTITY INFORMAT	
HAZARDOUS COMPONENTS	(cc	DMMON NAME (S))	OSHA F CEILIN				OTHER LIMITS RECOMMENDED	% (OPTIONAL)
		NONE AT C.I.U.						
	*5	EL OEU NOC A TIVITAVA	- 15 441/ 01/01	D NOT OOG	LID IF O LLL AND	250510110 7	9 0 5011 01450	
	Р	EL CEILINGS & TLV T.W.A.	S IF ANY SHOUL	D NOT OCC	UR IF C.I.U. AND	SECTIONS 7	& 8 FOLLOWED.	
		Y SOLD IN 1/4 OZ. TO 16 OX FOR SPECIFIC QUANTITIES		USED IN S	NGLE DROP TO A	FEW CUBIC (CENTIMETERS PER A	PPLICATION.
SECTION 3 - PI	HYSICAL /	CHEMICAL CHARACTERIS	STICS					
BOILING POINT AT 760 mm Hg			SPECI		CIFIC GRAVITY (H ₂ O = 1) TEMP. 23 °C / 73 °F			
	>258 °C		> 496 °F					ca 1.1
VAPOR PRESSURE IN mm Hg (TEMP.) 73 °F		_	MELT	MELTING POINT				
		ca .5					N.D.F.	
VAPOR DENSITY (AIR = 1) AT (mm Hg & TEMP.) 760 73 °F				EVAPORATION RATE AT 760 mm Hg & 23 °C / 73 °F			00.1	
		= OR > 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(MINERAL OIL = 1) APPEARANCE AND ODOR			ca 1	
SOLUBILITY IN WA	LUBILITY IN WATER AT		= =:		EARANCE AND ODOR ORLESS TO PALE YELLOW LIQUID, SWEET BALSAMIC			WOOD ODOR
			•	1				
		XPLOSION HAZARD DATA		ı				1
FLASH POINT (CUP METHOD USED) 275 °F (135 °C) C.C.		. —		LE LIMITS	LEL		UEL	
		C) C.C.				N.D.F.	N.D.F.	
EXTINGUISHING ME		LEUM GREASE / OIL FIRE.	LICE FOAM DE	V OLIEMIOA	CARRON DIOVI		N ACC D EVENOUICH	UNIO ACENT
SPECIAL FIRE FIGH			USE FOAM, DE	Y CHEIVIICA	L, CARBON DIOXI	DE OR ANY C	LASS B EXTINGUISH	IING AGENT.
SELCIAL FIRE FIGH	TINGTHO		ONE					
UNUSUAL FIRE AND	EXPLOS		-					
		No	ONE					
ADDDEVIATIONS: N	I A — NO	T APPLICABLE; N.D.F. = N	IO DATA EOUND	. TD C - 3	DADE SECRET: N	V E - NOT F	CTABLICHED:	
		ENDED USE; < = LESS T		•	NADE SEUNET, I	N.L. = NOTE	OTABLISHED,	

SECTION 5 - REACTIVITY DA	ATA						
STABILITY	UNSTABLE						
	STABLE	YES					
INCOMPATIBILITY (MATERIALS AND / OR CONDITIONS TO AVOID) STRONG OXIDIZERS.							
HAZARDOUS	MAY OCCUR		CONDITIONS TO A	VOID			
POLYMERIZATION							
	WILL NOT OCCUR						
		Х	NONE				
SECTION 6 - HEALTH HAZAF	D DATA						
ROUTE (S) OF ENTRY:	INHALATION	2	SKIN?	MUCOUS	MEMBRANES / EVES?	INGESTION?	
ROUTE (S) OF ENTRY: INHALATION? SKIN? MUCOUS MEMBRANES / EYES? INGESTION? (NOT LIKELY AT C.I.U.) SLIGHT SLIGHT SLIGHT POSSIBLE							
HEALTH HAZARDS (ACUTE AND			02.6		02.0	. 000.222	
,	NO	ONE KNO	OWN AT C.I.U.				
CARCINOGENICITY LISTED:	NTP?		IARC MO	NOGRAPHS?	OSH	HA CARCINOGEN?	
CIONIC AND CVANDTONIC OF EVE	NO			NO		NO	
SIGNS AND SYMPTOMS OF EXPO	JSURE		OILY FEE	:1			
			OILTTLL	.∟			
MEDICAL CONDITIONS GENERAL	LY AGGRAVATED BY E	XPOSU	BF.				
		-7.1. 000	N.D.F.				
EMERGENCY AND FIRST AID PRO	OCEDIIBES. INCLIIDE	POSSIE	NE MATERIAL THAT	MAV HAVE BEEN MIX	(ED WITH LIOUID DURING I	ISE	
				IVIAT TIAVE DELIVIVII	LD WITH EIGOID DOTING	JOL.	
INHALATION — REMOVE TO FRE	ESH AIR. CONSULT PH	YSICIAN					
SKIN & CLOTHES - PROMPT S	SOAP AND WATER WAS	SH, FLUS	SH WITH LARGE QUA	NTITIES OF WATER.			
EYE - FLUSH EYES WITH WATE	ER FOR AT LEAST 15 M	INUTES.	CONSULT PHYSIC	IAN.			
INGESTION — ADMINISTER WAT	TER OR MILK. CONSUL	T PHYSI	CIAN.				
SECTION 7 - PRECAUTIONS	FOR SAFE HANDLING	AND US	E – FOLLOW C.I.U.	SEE SECTION 1			
STEPS TO BE TAKEN IN CASE MA				CONTAINER, CAP OF	TWIST TIE CLOSURE (SE	E SECTION 8).	
WASTE DISPOSAL METHOD:	(, , , , , , , , , , , , , , , , , , ,				(
ALL CHEMICAL DISPO	SALS MUST BE IN ACC	ORDANO	CE WITH CURRENT L	OCAL, STATE, AND F	EDERAL REGULATIONS.		
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING							
STORE BETWEEN 65 °F AND 90 °F (18 °C AND 32 °C)							
OTHER RECONITIONS	AVOID OPEN	FLAMES	S AND OTHER SIMILA	AR SOURCES OF IGN	ITION.		
OTHER PRECAUTIONS AVOID CONTINUAL DIRECT LIGHT.							
ATOID CONTINUAL BIRLEY EIGHT							
SECTION 8 - CONTROL MEASURES; WHEN USED AS INTENDED (SEE SECTION 1)							
RESPIRATORY PROTECTION (S	,	_					
	SEE "VENTIL	_ATION"			T		
VENTILATION	LOCAL EXHAUST		*		SPECIAL N.A	٠.	
	MECHANICAL (GENE	RAL)			OTHER	-	
	*		*			١.	
PROTECTIVE GLOVES * EYE PROTECTION						1050	
SURGICAL TYPE OVER POLYETHYLENE TO INCREASE MANUAL DEXTERITY SAFETY GLASSES *							
OTHER PROTECTIVE CLOTHING OR EQUIPMENT * — NOT MANDATORY EXCEPT AS COOR LARGRATORY INDUSTRIAL PRACTICES.							
* = NOT MANDATORY EXCEPT AS GOOD LABORATORY INDUSTRIAL PRACTICES. ALWAYS USE GOOD HYGIENIC WORK / PRACTICES AS TO HOUSEKEEPING, PERSONAL HYGIENE, USE OF CHEMICAL LAB APRON							
				*	*	AL LAD AFNOIN	
AND SPLASH GOGGLES, AVOIDANCE OF VAPORS, PROLONGED AND REPEATED SKIN CONTACT. SPECIAL PRECAUTIONS							
N.A.							
		-					