SAFETY DATA SHEETS

This SDS packet was issued with item:

078358966

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078399699 078443607



CARGILLE LABORATORIES, INC.

55 Commerce Road • Cedar Grove, New Jersey • 07009-1289 USA Phone: 973-239-6633 Fax: 973-239-6096 Email: CargilleLabs@aol.com URL: http://www.cargille.com

CATALOG #16482 - TYPE A; #16484 - TYPE B

IDENTITY (AS USED ON LABEL AND MANUF. LITERATURE)	NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT
CARGILLE IMMERSION OIL	APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE
TYPES A & B CODE 1248	MARKED TO INDICATE THAT.

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)	TELEPHONE NUMBER FOR INFORM. 973-239-6633	ATION		
55 COMMERCE ROAD	DATE PREPARED JUNE 5, 2011	SUPERCEDES PRIOR DATED MSDS FOR THIS MATERIAL		
CEDAR GROVE, NJ 07009	SIGNATURE OF PREPARER (OPTIO	DNAL)		

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 A MICROSCOPE IMMERSION OIL AT NORMAL ROOM PRESSURE (760 mm Hg), TEMPERATURE 45 °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 - HAZAI	DROUG INOREDIENTS			ODEOU		AL IDENITITY INCODA	ATION
HAZARDOUS	KDOUS INGREDIENTS	0011	OCUA DEL			AL IDENTITY INFORM	ATION
COMPONENTS	(COMMON NAME (S))	OSHA PEL CEILING		ACGIH T T.W.A			% (OPTIONAL)
COMPONENTS	(COMMON NAME (S))	CEII	LING			RECOMMENDED	% (OPTIONAL)
TRADE SECRET	HYDROGENATED TERPHENYL		.E.	5 mg / CUBIC M	ETER *		
TRADE SECRET	TERPHENYL	5 mg / CUB	IC METER *	5 mg / CUBIC M			
TRADE SECRET	NATURAL HYDROCARBONS	5 mg / CUB	IC METER *	5 mg / CUBIC METER * IF MISTED		IF MISTED	
TRADE SECRET	POLYBUTENES	5 mg / CUB	IC METER *	5 mg / CUBIC M	METER * IF MISTED		
	*PEL CEILINGS & TLV T.W.A.	S IF ANY SHOU	ILD NOT OCCL	JR IF C.I.U. AND S	ECTIONS 7 8	& 8 FOLLOWED.	
SEE REQUISITIO	MALLY SOLD IN 1/4 OZ. TO 1 GALI ONER FOR SPECIFIC QUANTITIES	INVOLVED.	ES. USED IN S	SINGLE DROP TO	A FEW CUBIO	C CENTIMETERS PER	APPLICATION.
	ICAL/CHEMICAL CHARACTERIST	ics	T				
BOILING POINT AT 760	mm Hg 340 °C	644 °F	SPECIFIC G	3 °C / 73 °F	.9		
VADOD DDECCUDE IN 10		644 F	MELTING BONT				.9
VAPOR PRESSURE IN I	73 °F	< 0.1	MELTING POINT				< 32 °F
VADOD DENCITY / AID	= 1) AT (mm Hg & TEMP.)	< 0.1	5) /4 BOD 4 T	1011 DATE AT 700		00.00 / 70.05	\ 32 F
VAPOR DENSITY (AIR	760 73 °F	ca 1	(MINERAL	ION RATE AT 760	mm ng & 2	23 °C / /3 °F	ca 1
COLUBBILITY IN WATER		Ca i		- /			Ca i
SOLUBILITY IN WATER	760 73 °F	NIL		CE AND ODOR	IT CLIADACT	EDICTIC ODOD	
SECTION 4 FIRE	AND EXPLOSION HAZARD DATA	INIL	LIGF	IT YELLOW, SLIGH	11 CHARACT	ERISTIC ODOR	
FLASH POINT (CUP ME			FLAMMARI	T LIMITO	Liei		UEL
FLASH POINT (COP INI	,	01000	FLAMMABLE LIMITS LEL		LEL	N.D.F.	N.D.F.
EVENOUIOUNO MEDIA	> 325 °F (163 °C	0) 0.0.0.				N.D.F.	N.D.F.
EXTINGUISHING MEDIA		EOAM DDV	CHEMICAL OF		ENIT		
SPECIAL FIRE FIGHTING	CARBON DIOXIDE	, FOAM, DRY	CHEMICAL OF	ANY CLASS B AC	IEINI		
SPECIAL FINE FIGHTING	NONE						
UNUSUAL FIRE AND EX							
NONE							
	INOINL						
ABBREVIATIONS: N.A.	= NOT APPLICABLE; N.D.F. = NO	O DATA FOUNI	D: TR.S. = TF	RADE SECRET: N	E. = NOT ES	STABLISHED:	
	OF INTENDED USE; < = LESS TH						
20.12.1.10110		,					

SECTION 5 - REACTIVITY DAT	ΓΑ						
STABILITY	UNSTABLE		_				
	STABLE	YES					
INCOMPATIBILITY (MATERIALS AND/OR CONDITIONS TO AVOID) STRONG OXIDIZERS, HEAT ABOVE 150 °F							
HAZARDOUS	MAY OCCUR		CONDITIONS TO AVOID	1			
POLYMERIZATION	WAT COCOTT		CONDITIONS TO AVOID				
T GETWENIENE THON	WILL NOT OCCUR						
		Х	NONE				
SECTION 6 - HEALTH HAZAR	D DATA						
\ <i>'</i>	IHALATION?		SKIN? MUCOUS MEMBRAI				
(NOT LIKELY AT C.I.U.)	YES		SLIGHT SLIGHT	POSSIBLE	<u> </u>		
HEALTH HAZARDS (ACUTE AND	•	ONE KNO	OWN AT C.I.U.				
		JIVE IVIV	SWITTE CINE.				
CARCINOCENICITY LICTER:	NTP?		IARC MONOGRAPHS?	OSHA CARCINOGEN?			
CARCINOGENICITY LISTED:	NIP! NO		NO	OSHA CARCINOGEN ! NO			
SIGNS AND SYMPTOMS OF EXPO							
OILY FEEL, IF LIQUID I	S MISTED OR ABOVE	150 °F	(NOT A C.I.U.) HEADACHES AND NAUS	SEA POSSIBLE.			
MEDICAL CONDITIONS GENERALI	LY AGGRAVATED BY E	XPOSU					
			N.D.F.				
			215 11175 211 71117 11117 1117	VED MITH HOLID BURNE HOE			
			BLE MATERIAL THAT MAY HAVE BEEN MIX	ED WITH LIQUID DURING USE.			
INHALATION — (NOT LIKELY AT	C.I.U.) IF CONCERN	ARISES	, REMOVE TO FRESH AIR.				
SKIN AND CLOTHES - PROMPT	SOAP AND WATER WA	ASH.					
EVES — ELLISH WITH WATER SI	ICUT TEMPODADV ID	DITATIO	ON POSSIBLE (CONSULT PHYSICIAN).				
			<u> </u>				
INGESTION — LOW ORDER OF TO	OXICITY, FIRST AID N	ORMAL	LY NOT NEEDED (CONSULT PHYSICIAN).			
OFOTION 7							
SECTION 7 - PRECAUTIONS F			E – FOLLOW C.I.U. SEE SECTION 1				
				R TWIST TIE CLOSURE (SEE SECTION 8).			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.01.0 (1.02.2.11.12			(022 020 110 110 110 110 110 110 110 110			
WASTE DISPOSAL METHOD:							
			ST BE IN ACCORDANCE WITH CURRENT	OCAL, STATE, AND FEDERAL REGULATIONS	<u>).</u>		
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING							
			STORE BETWEEN 65 °F AN	90°F (18°C AND 32°C)			
OTHER PRECAUTIONS							
o mem neono nono	AVOID CONT	INUAL D	DIRECT SUNLIGHT, VAPORIZING OR ATO	MIZING			
			,				
SECTION 8 - CONTROL MEAS		AS INTE	NDED (SEE SECTION 1)				
RESPIRATORY PROTECTION (SF	,	"					
VENTILATION	SEE "VENTIL LOCAL EXHAUST	_A I ION		CDECIAL			
VENTILATION	LOCAL EXHAUST	,		SPECIAL N.A.			
-	MECHANICAL (GENE	RAL)		OTHER			
	*	, ,		N.A.			
PROTECTIVE GLOVES			EYE PROTECTION				
	SURGICAL TYPE, IF	WORN		*			
OTHER PROTECTIVE CLOTHING (OR EQUIPMENT	+					
* = NOT MANDATORY F	EXCEPT AS GOOD LAF	ROBATO	PRY INDUSTRIAL PRACTICES.				
				YGIENE, USE OF CHEMICAL LAB APRON			
			RS, PROLONGED AND REPEATED SKIN C	· · · · · · · · · · · · · · · · · · ·			
SPECIAL PRECAUTIONS							
	N.	Α.					
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Services to the Sciences Since 1924

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TYPES A & B CODE 1248	MARKED TO INDICATE THAT.

SECTION 1					
MANUFACTURER'S NAME EMERGENCY TELEPHONE NUMBER					
CARGILLE LABORATORIES, INC.	WEEKDAY 973 - 239 - 6633 2	4 HR CHEMTREC 800 - 424 - 9300			
ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE)	TELEPHONE NUMBER FOR INFORM	TELEPHONE NUMBER FOR INFORMATION			
	973-239-6633				
55 COMMERCE ROAD	DATE PREPARED	SUPERCEDES PRIOR DATED			
	JUNE 3, 2005	MSDS FOR THIS MATERIAL			
CEDAR GROVE, NJ 07009	SIGNATURE OF PREPARER (OPT	TONAL)			

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TEMPERATURE 45 °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						ATION		
HAZARDOUS		OSHA PEL		ACGIH TLV		OTHER LIMITS		
COMPONENTS	(COMMON NAME (S))	CEI	LING	T.W.A.		RECOMMENDED	% (OPTIONAL)	
TRADE SECRET	HYDROGENATED TERPHENYL		.E.	5 mg / CUBIC N	/IETER *			
TRADE SECRET	TERPHENYL	5 mg / CUB	IC METER *	5 mg / CUBIC N	/IETER *			
TRADE SECRET	NATURAL HYDROCARBONS	5 mg / CUB	IC METER *	5 mg / CUBIC METER *		IF MISTED		
TRADE SECRET	POLYBUTENES	5 mg/cub	SIC METER *	5 mg/cubic M	5 mg / CUBIC METER * IF MISTED			
	*PEL CEILINGS & TLV T.W.A.	S IF ANY SHOU	ILD NOT OCCU	JR IF C.I.U. AND S	ECTIONS 7	& 8 FOLLOWED.		
	RMALLY SOLD IN $\frac{1}{4}$ OZ. TO 1 GALIONER FOR SPECIFIC QUANTITIES		ES. USED IN S	SINGLE DROP TO	A FEW CUBI	C CENTIMETERS PER	APPLICATION.	
SECTION 3 - PHY	SICAL/CHEMICAL CHARACTERIST	ics						
BOILING POINT AT 76	60 mm Hg		SPECIFIC G	RAVITY (H ₂ O =	1) TEMP. 2	3 °C / 73 °F		
	340 °C	644 °F		•	,		.9	
VAPOR PRESSURE IN	VAPOR PRESSURE IN mm Hg (TEMP.)			MELTING POINT				
	73 °F	< 0.1					< 32 °F	
VAPOR DENSITY (AI	R = 1) AT (mm Hg & TEMP.)		EVAPORAT	23 °C / 73 °F				
	760 73 °F	ca 1	(MINERAL	OIL = 1)			ca 1	
SOLUBILITY IN WATE	R AT (mm нg & ТЕМР.)		APPEARAN	CE AND ODOR				
	760 73 °F	NIL	LIGH					
SECTION 4 - FIRE	AND EXPLOSION HAZARD DATA							
FLASH POINT (CUP	METHOD USED)		FLAMMABL	E LIMITS	LEL		UEL	
	> 325 °F (163 °	C) c.o.c.				N.D.F.	N.D.F.	
EXTINGUISHING MED	IA							
	CARBON DIOXIDE	, FOAM, DRY	CHEMICAL OF	R ANY CLASS B A	GENT			
SPECIAL FIRE FIGHTI	NG PROCEDURES							
	NONE							
UNUSUAL FIRE AND EXPLOSION HAZARDS								
	NONE							
ABBREVIATIONS: N	A. = NOT APPLICABLE; N.D.F. = N	O DATA FOLINI	D: TR.S. = TF	RADE SECRET: N	I.F. = NOT F	STABLISHED:		
	OF INTENDED USE; < = LESS TH			U.D.L OLONEI, IN	NOT L	OTTELOTIED,		
U.I.U CONDITIONS	O	7.1.1, / - GREF	TIEN HIMIN.					

PAGE 1 OF 2

FORMAT JANUARY 30,1995

SECTION 5 - REACTIVITY DAT	ΓΑ						
STABILITY	UNSTABLE						
INICOMPATIBILITY (MATERIALS	STABLE STABLE	YES	ID)				
INCOMPATIBILITY (MATERIALS A	MUJUR CONDITIONS	IO AVO	*	IZERS, HEAT ABOV	/F 150)°F	
HAZARDOUS	MAY OCCUR		CONDITIONS		/L 130	, 1	
POLYMERIZATION							
	WILL NOT OCCUR						
		X	NONE				
SECTION 6 - HEALTH HAZARI			OKIN2	MUCCUCME		NEO / EVEO?	INOCCTION 2
ROUTE (S) OF ENTRY: IN (NOT LIKELY AT C.I.U.)	IHALATION? YES		SKIN? SLIGHT	MUCOUS ME	IMBRAI LIGHT	NES/EYES!	INGESTION? POSSIBLE
HEALTH HAZARDS (ACUTE AND			02.0111	0.			1 0001522
,	•	ONE KNO	OWN AT C.I.U.				
CARCINOGENICITY LISTED:	NTP?		IAR	C MONOGRAPHS?			OSHA CARCINOGEN?
	NO			NO			NO
SIGNS AND SYMPTOMS OF EXPO		450 05	/=	\ 			
OILY FEEL, IF LIQUID IS	S MISTED OR ABOVE	150 °F	(NOT A C.I.U.) HEADACHES ANI	D NAUS	SEA POSSIBLE.	
MEDICAL CONDITIONS GENERALI	Y AGGRAVATED BY F	XPOSU	RF				
WEBIGINE GONDING GENERALE		-741 OOO		N.D.F.			
EMERGENCY AND FIRST AID PRO	CEDURES: INCLUDE	POSSIE	BLE MATERIAL	THAT MAY HAVE BE	EN MIX	KED WITH LIQUID DU	URING USE.
INHALATION — (NOT LIKELY AT (C.I.U.) IF CONCERN	ARISES	, REMOVE TO F	RESH AIR.			
SKIN AND CLOTHES - PROMPT S	SOAD AND WATED W/	/ CH					
	-						
EYES - FLUSH WITH WATER, SI	LIGHT TEMPORARY IR	RITATIO	ON POSSIBLE (CONSULT PHYSICIA	AN).		
INGESTION - LOW ORDER OF TO	OXICITY, FIRST AID N	ORMALI	Y NOT NEEDE	O (CONSULT PHYS	SICIAN)).	
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE - FOLLOW C.I.U. SEE SECTION 1							
STEPS TO BE TAKEN IN CASE MA				NE) CONTAINED	045.05	7 TA 110 T TIE OL OOL 11	UDE (055 050T/0N 0)
ABSORB, PLACE IN PL	ASTIC (POLYETHYLE	INE OR	POLYPROPYLE	NE) CONTAINER, (CAP OF	R TWIST TIE CLOSUI	IRE (SEE SECTION 8).
WASTE DISPOSAL METHOD:							
Al	L CHEMICAL DISPOS	ALS MU	ST BE IN ACCO	RDANCE WITH CUR	RENT	LOCAL, STATE, AND	FEDERAL REGULATIONS.
PRECAUTIONS TO BE TAKEN IN H	ANDLING AND STORII	NG				0-4	2.5
STORE BETWEEN 65 °F AND 90 °F (18 °C AND 32 °C)							
OTHER PRECAUTIONS							_
OTHER PREGACTIONS	AVOID CONT	INUAL D	IRECT SUNLIG	HT, VAPORIZING O	R ATO	MIZING	
				,			
SECTION 8 - CONTROL MEAS		AS INTE	NDED (SEES	ECTION 1)			
RESPIRATORY PROTECTION (SF	·	4.TION!"					
VENTILATION	SEE "VENTII LOCAL EXHAUST	ATION				SPECIAL	
VENTIENTON	toone Eninoon	ŧ				OI EOI/IE	N.A.
	MECHANICAL (GENE	RAL)				OTHER	
	k	t					N.A.
PROTECTIVE GLOVES	SURGICAL TYPE, IF	MODN		EYE PROTECTION	١	*	
OTHER PROTECTIVE CLOTHING O		WORN					
		*					
* = NOT MANDATORY E							
							CHEMICAL LAB APRON
AND SPLASH GOGGLES, AVOIDANCE OF VAPORS, PROLONGED AND REPEATED SKIN CONTACT. SPECIAL PRECAUTIONS							
OI LOIALT ILLOAUTIONS	N.	A.					
			·				