

CARGILLE LABORATORIES, INC.

55 Commerce Road • Cedar Grove, New Jersey • 07009-1289 USA

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CATALOG #52060, 52160 (6 ml SIZE) ; 52064, 52164 (10 ml SIZE)

IDENTITY (AS USED ON LABEL AND MANUF. LITERATURE) CARGILLE KINGSBURY-CLARK ALBUMIN STANDARDS 5, 10, 20, 30, 40, 50, 75, 100 mg	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)	TELEPHONE NUMBER FOR INFORMATION 973 - 239 - 6633
55 COMMERCE ROAD	DATE PREPARED JUNE 3, 2005
CEDAR GROVE, NJ 07009	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 VISUAL STANDARDS (A GEL PERMANENTLY SEALED IN GLASS) AT NORMAL ROOM PRESSURE (760 mm Hg), TEMPERATURE 50 °F TO 85 °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)
FORMALDEHYDE	SAME	.75 ppm *	0.3 ppm CEILING *	N.E.	0.3%
METHANOL (SOLVENT FOR FORMALDEHYDE)		200 ppm *	200 ppm T.W.A. *		

NOTE: USUALLY ONLY ONE SET OF ALBUMIN STANDARDS IS USED AT ONE TIME. THE STANDARDS ARE GLASS TUBES CONTAINING AN AQUEOUS GEL OF GRADED TURBIDITY. ONE SET CONTAINS 8 TUBES OF A TOTAL OF LESS THAN 100 ml OF GEL. ALL TUBES ARE GLASS, PERMANENTLY SEALED WITH EPOXY AND CORK SO EXPOSURE TO THE GEL IS UNLIKELY.

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

SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS			
BOILING POINT AT 760 mm Hg = OR > 100 °C	= OR > 212 °F	SPECIFIC GRAVITY (H ₂ O = 1) TEMP. 23 °C / 73 °F	1.16
VAPOR PRESSURE IN mm Hg (TEMP.) 73 °F	< 24	MELTING POINT ca 60 °C	ca 140 °F
VAPOR DENSITY (AIR = 1) AT (mm Hg & TEMP.) 760 73 °F	N.E.	EVAPORATION RATE AT 760 mm Hg & 23 °C / 73 °F (WATER = 1)	< 1
SOLUBILITY IN WATER AT (mm Hg & TEMP.) 760 140 °F	VIRTUALLY COMPLETE	APPEARANCE AND ODOR: VERY LIGHT TAN GEL SEALED IN GLASS TUBES WITH EPOXY AND NATURAL CORK, SLIGHT CHARACTERISTIC ODOR IF OPENED	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (CUP METHOD USED): > 140 °F (60 °C) C.C.	FLAMMABLE LIMITS	LEL N.E.	UEL N.E.
EXTINGUISHING MEDIA: CO ₂			
SPECIAL FIRE FIGHTING PROCEDURES: IF 10 OR MORE SETS INVOLVED USE N.I.O.S.H. / MESA APPROVED S.C.B.A.			
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.

SECTION 5 - REACTIVITY DATA			
STABILITY	UNSTABLE		
	STABLE	YES	
INCOMPATIBILITY (MATERIALS AND / OR CONDITIONS TO AVOID)			
N.A.			
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? YES	MUCOUS MEMBRANES / EYES? YES
			INGESTION? POSSIBLE
HEALTH HAZARDS (ACUTE AND CHRONIC).			
NONE KNOWN AT C.I.U. IF TUBES ARE BROKEN OPEN, FORMALDEHYDE (0.3% OF GEL BY WEIGHT) VAPORS MAY IRRITATE EYES AND NOSE. CONTACT MAY IRRITATE SKIN OR EYES. INGESTION MAY IRRITATE MOUTH AND STOMACH.			
CARCINOGENICITY LISTED: FORMALDEHYDE	NTP? YES	IARC MONOGRAPHS? YES	OSHA CARCINOGEN? YES
SIGNS AND SYMPTOMS OF EXPOSURE			
TUBES BROKEN OPEN: SLIPPERY GEL ON CLOTHES OR BODY; IRRITATION OF EXPOSED AREA OF BODY.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE			
NONE KNOWN AT C.I.U.			
EMERGENCY AND FIRST AID PROCEDURES: INCLUDE POSSIBLE MATERIAL THAT MAY HAVE BEEN MIXED WITH LIQUID DURING USE.			
INHALATION – REMOVE TO FRESH AIR.			
SKIN CONTACT – WASH WITH SOAP AND WATER.			
EYES – FLUSH WITH WATER. CONTACT PHYSICIAN.			
INGESTION – CONTACT PHYSICIAN; IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER.			
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 (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			
AVOID BREAKING TUBES; MINIMIZE EXPOSURE TO LIGHT, ESPECIALLY DIRECT SUN. STORE BETWEEN 50 °F AND 85 °F (10 °C AND 29 °C)			
OTHER PRECAUTIONS			
N.A.			
SECTION 8 - CONTROL MEASURES; WHEN USED AS INTENDED (SEE SECTION 1)			
RESPIRATORY PROTECTION (SPECIFY TYPE)			
SEE "VENTILATION"			
VENTILATION	LOCAL EXHAUST	*	SPECIAL N.A.
	MECHANICAL (GENERAL)	*	OTHER N.A.
PROTECTIVE GLOVES	*	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.			