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MATERIAL SAFETY DATA SHEET

SECTION I • PRODUCT IDENTIFICATION

CATALOG NUMBER (S) 1321-31, 1322-31, 1331-31, 1332-31	EMERGENCY TELEPHONE NUMBER 800 624-8380
CHEMICAL NAME AND SYNONYMS Bilirubin in a humanprotein matrix	DATE PREPARED/REVISED 01/20/05 REVISION # 04
TRADE NAME Bilirubin Control: Adult Level 1 and 2. Pediatric Level 1 and 2	
CHEMICAL FAMILY Quality Control Materials	

SECTION II • COMPOSITION / HAZARDOUS INGREDIENTS

This product does not contain any ingredients which have been determined to be health hazards pursuant to Federal OSHA and which comprise 1% or more (0.1% or more for carcinogens) of the mixture.

CHEMICAL NAMES	CAS NUMBER	PERCENT	EXPOSURE LIMITS IN AIR		
			ACGIH (TLV)	OSHA (PEL)	OTHER
Thimerosal (Sodium ethylmercurithiosalicylate)	54-64-8	0.02%	0.1 mg/m ³ as Hg (skin)	0.1 mg/m ³ as Hg (skin)	NIOSH REL: TWA 0.05mg/Hg/m ³

NFPA Rating Index	Health	Flammability	Reactivity	Special Precautions
Health (Blue) 2 = Warning May be harmful if inhaled or absorbed combustible Reactivity (Yellow) 0 = Stable Not reactive when mixed with water	2	0	0	none

SECTION III • PHYSICAL PROPERTIES

BOILING POINT OR RANGE (F)	N/A	MELTING POINT OR RANGE (F)	N/A
SPECIFIC GRAVITY (H ₂ O=1)	N/A	SOLUBILITY IN WATER	N/A
VAPOR PRESSURE (mmHg)	N/A	VAPOR DENSITY (AIR=1)	N/A
PERCENT, VOLATILE BY VOLUME (%)	N/A	EVAPORATION RATE (_____ = 1)	N/A

APPEARANCE AND ODOR
 Amber yellow odorless liquid

HOW TO DETECT THIS SUBSTANCE*
 No unusual warning properties

*WARNING PROPERTIES OF SUBSTANCE AS A GAS, VAPOR, DUST OR MIST • ODOR IS NOT AN ADEQUATE WARNING OF INHALATION HAZARD • SKIN IRRITATION IS NOT AN ADEQUATE WARNING OF ABSORPTION THROUGH THE SKIN

SECTION IV • FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)	N/A	FLAMMABLE LIMITS IN AIR, VOLUME (%)	LOWER	UPPER
			N/A	N/A
AUTOIGNITION TEMPERATURE (F)	N/A			
FIRE EXTINGUISHING MATERIALS	Use fire extinguishing material appropriate for surrounding fire			
SPECIAL FIRE FIGHTING PROCEDURES	None			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

SECTION V • HEALTH HAZARD DATA

SYMPTOMS OF OVEREXPOSURE	No vapor hazard. Reddening or irritation of the skin may occur upon contact.
ACUTE HEALTH EFFECTS OR RISKS FROM EXPOSURE	Reddening or irritation of skin or eyes may be experienced.
CHRONIC HEALTH EFFECTS OR RISKS FROM EXPOSURE	Long term effects are not likely if product is used as directed. Thimerosal, a mercury containing compound, is reported to have adverse reproductive effects in animal studies. Long term exposure to concentrated solutions may affect mouth, gums, or central nervous system.
FIRST AID: EMERGENCY PROCEDURES	Remove contaminated clothing. Wash affected skin areas with soap and water. Flush skin and eyes with water for at least 15 minutes. If swallowed, call physician or poison control center.
SUSPECTED CANCER AGENT ?	No
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	None known
RECOMMENDATIONS TO PHYSICIAN	Treat symptoms

SECTION VI • REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (<i>Materials to avoid</i>)	None		
HAZARDOUS DECOMPOSITION PRODUCTS	None		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII • SPILL, LEAKAGE AND DISPOSAL PROCEDURES

SPILL RESPONSE PROCEDURES	Wear protective clothing and gloves. Absorb spilled liquid with appropriate materials. Rinse area with soap and water solution. Disinfect with bleach diluted 1:10 with water. Rinse area with water.
WASTE DISPOSAL METHOD	Dispose of in accordance with Federal, State and local regulations.

SECTION VIII • SPECIAL HANDLING INFORMATION

RESPIRATORY PROTECTION (<i>Specify type</i>)	None Required		
VENTILATION	LOCAL EXHAUST	N/A	SPECIAL
	MECHANICAL (<i>General</i>)	N/A	OTHER
PROTECTIVE GLOVES	Recommended	EYE PROTECTION	Recommended Avoid getting into eyes
OTHER CLOTHING AND EQUIPMENT	Wear Labcoat		
WORK AND HYGIENIC PRACTICES	For In Vitro Diagnostic Use Only. It is recommended that such samples be handled at the Centers for Disease Control's Biosafety Level 2.		
California Proposition 65 Warning: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm			
OTHER HANDLING AND STORAGE REQUIREMENTS	Store and Handle according to package insert directions		
Caution: Contains human serum proteins. All blood donor units comprising the protein pool have been tested and found nonreactive for Hepatitis B surface antigen, Hepatitis C and HIV 1 & 2 antibody when tested by FDA accepted methods. No known test method can assure that a product derived from human blood does not contain Hepatitis or HIV virus. Handle as if potentially infectious.			
PROTECTIVE MEASURES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT	None other than those indicated above		