Sigma Chemical Co. P.O. Box 14508

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MATERIAL SAFETY DATA SHEET

	CHEMICAL IDENTIFICATION
CATALOG #:	
NAME:	CYTOCHROME C FROM RAT HEART COMPOSITION/INFORMATION ON INGREDIENTS
CAS #: 9007-43-	
EC NO: 232-700-	9
SYNONYMS	
	ST * FERRICYTOCHROME C * FERROCYTOCHROME C * HEMATIN-
	CYTOCHROME C * HORSE HEART CYTOCHROME C * LANDRAX *
	ROSYLFERRICYTOCHROME C *
	HAZARDS IDENTIFICATION
LABEL PRECAUTIONAR	Y STATEMENTS
LIGHT SENSITIVE	
	SH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN	
	VE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,
CALL A PHYSICIAN	
	CT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER	
	CT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER
	MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
	FINGERS. CALL A PHYSICIANFIRE FIGHTING MEASURES
EXTINGUISHING MEDI WATER SPRAY.	A
	DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTI	
	NED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
	WITH SKIN AND EYES.
UNUSUAL FIRE AND E	
	S UNDER FIRE CONDITIONS.
	ACCIDENTAL RELEASE MEASURES
	CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.	CHEMICAL SHEET COCCUES, ROBBER BOOTS THE HERVY
	IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DU	
	ND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
	HANDLING AND STORAGE
REFER TO SECTION	
	- EXPOSURE CONTROLS/PERSONAL PROTECTION
SAFETY SHOWER AN	
MECHANICAL EXHAU	ST REQUIRED.
AVOID INHALATION	•
	TH EYES, SKIN AND CLOTHING.
AVOID PROLONGED	OR REPEATED EXPOSURE.
NIOSH/MSHA-APPRO	VED RESPIRATOR.
COMPATIBLE CHEMI	CAL-RESISTANT GLOVES.
CHEMICAL SAFETY	GOGGLES.
WASH THOROUGHLY	AFTER HANDLING.
KEEP TIGHTLY CLO	SED.
STORE BELOW 0 C	

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SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -
 APPEARANCE AND ODOR
   REDDISH-BROWN.
   CRYSTALLINE
   SOLID.
 PHYSICAL PROPERTIES
   MELTING POINT: 300 C
SECTION 10. - - - - - - - STABILITY AND REACTIVITY - - - -
 STABILITY
   STABLE.
 INCOMPATIBILITIES
   STRONG OXIDIZING AGENTS
 HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
   CARBON MONOXIDE, CARBON DIOXIDE
 HAZARDOUS POLYMERIZATION
   WILL NOT OCCUR.
SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - -
 ACUTE EFFECTS
   MAY CAUSE SKIN IRRITATION.
   MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
   MAY CAUSE EYE IRRITATION.
   MAY BE HARMFUL IF INHALED.
   MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER
   RESPIRATORY TRACT.
   MAY BE HARMFUL IF SWALLOWED.
   TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
   TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.
 RTECS #: HA5365000
   CYTOCHROME C
 TOXICITY DATA
                                                 TOVEFN (4),40,1994
    IPR-RAT LD50:6250 MG/KG
    IVN-MUS LD50:>3 GM/KG
                                                NIIRDN 6,461,1982
 TARGET ORGAN DATA
   EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
    ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
    (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
   COMPLETE INFORMATION.
SECTION 12. - - - - - - ECOLOGICAL INFORMATION - - - - - - -
   DATA NOT YET AVAILABLE.
SECTION 13. - - - - - - DISPOSAL CONSIDERATIONS - - - - - -
    CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF
    THIS MATERIAL.
   DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A
    CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
    OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
SECTION 14. - - - - - - TRANSPORT INFORMATION - - - - - -
   CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.
SECTION 15. - - - - - - REGULATORY INFORMATION - - - - -
 REVIEWS, STANDARDS, AND REGULATIONS
    OEL=MAK
   EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
SECTION 16. - - - - - - - OTHER INFORMATION- - - - - - - - -
   THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
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