

PRODUCT NAME-IDENTITY: Vitamin B ₁₂ Injection 1000 mcg	CHEMICAL FAMILY: Nutritional (Vitamin)	D.O.T. HAZARD CLASSIFICATION: Not considered hazardous
--	---	---

MANUFACTURER NAME: Sparhawk Laboratories	EMERGENCY TELEPHONE #:
ADDRESS: 12340 Santa Fe Trail Drive Lenexa, KS 66215	TELEPHONE # FOR INFORMATION: 913-888-7500
	DATE PREPARED: 03/28/95

HAZARDOUS INGREDIENT IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAMES):
None considered hazardous: significant ingredients include cyanocobalamin – 1000 mcg per mL, in aqueous base.

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 217°F	SPECIFIC GRAVITY: 1.045
VAPOR PRESSURE (mm Hg.): not determined	MELTING POINT: N/A
VAPOR DENSITY (Air = 1): not determined	EVAPORATION RATE: not determined (Butyl Acetate = 1)
SOLUBILITY IN WATER: Complete	
pH: 3.5 – 5.0	
APPEARANCE AND ODOR: Red liquid solution	

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/A	FLAMMABLE LIMIT:	LEL N/A	UEL N/A
EXTINGUISHING MEDIA: Water fog, alcohol foam dry chemical or carbon dioxide for surrounding fire.			
SPECIAL FIRE FIGHTING PROCEDURE: Isolate hazard. Evacuate personnel. Move containers away from area of fire if possible. Use water spray to cool fire exposed containers. Fire fighters should wear self-contained breathing apparatus and protective clothing.			
UNUSUAL FIRE & EXPLOSION HAZARDS: None known.			

REACTIVITY DATA

STABILITY:	UNSTABLE		CONDITIONS TO AVOID:
	STABLE	X	
HAZARDOUS DECOMPOSITION OF BYPRODUCTS: Exposure to fire may yield carbon monoxide and carbon dioxide fumes.			
INCOMPATIBILITY: (MATERIALS TO AVOID): Strong bases, strong acids and oxidizing agents			
HAZARDOUS POLYMERIZATION:	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

HEALTH HAZARD DATA

ROUTES OF ENTRY:		HEALTH HAZARD (ACUTE & CHRONIC):
SKIN/EYES?	Yes	Acute overexposure may cause irritation to eyes and skin.
INHALATION?		
INGESTION?	Yes	Acute overexposure: Ingestion of large amounts may cause nausea or vomiting
CARCINOGENICITY: N/A		
TOXICITY: Product is essentially non-toxic nutritive substance		
SIGNS & SYMPTOMS OF EXPOSURE: May cause slight irritation to eyes and skin.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:		
EMERGENCY & FIRST AID PROCEDURES: Eyes: Flush with large amounts of water, and seek medical attention. Skin: Thoroughly wash area with soap and water. Inhalation: Provide fresh air and if necessary, give oxygen. Ingestion: Give several glasses of water to dilute and seek medical attention.		

PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill on inert material (i.e., dry sand or earth) – Place in appropriate waste container for disposal. Flush area with detergent and water.
WASTE DISPOSAL METHOD: Follow local, state and federal disposal requirements.
PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Store between 15° and 30°C (59° - 86°F)
OTHER PRECAUTIONS:

CONTROL & SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	
VENTILATION:	SPECIAL:
LOCAL EXHAUST: Yes	MECHANICAL:
PROTECTIVE GLOVES: Rubber	
EYE PROTECTION: Goggles	
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash station and emergency showers should be provided.	
WORK/HYGIENIC PRACTICES:	
OTHER:	

The above information is believed to be accurate and represents the best information available to us at the time this Material Safety Data Sheet was prepared. The information is provided to our customers in good faith; however, no warranty, expressed or implied, is made.