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

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

PHYSICAL/CHEMICAL CHARACTERISTICS

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| 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

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| 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

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| 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

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| 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

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| 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

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| RESPIRATORY PROTECTION: | |
| VENTILATION: LOCAL EXHAUST: Yes MECHANICAL: | SPECIAL: |
| 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.