

## MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	VITAMIN B-12 3000 mcg/mL, VITAMIN B-12 5000 mcg/mL		
Manufacturer's Name:	Neogen Corporation	Emergency Phone No.	859 254 1221
	944 Nandino Blvd.	Fax No.:	859 255 5532
	Lexington, KY 40511	e-mail:	<a href="mailto:inform@neogen.com">inform@neogen.com</a>
Date Prepared or Revised: 11/15/05			

Section II – Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity: Common Names)	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (Threshold Limit Value)	Toxicity Data LD <sub>50</sub>
CYANOCOBALAMIN 3000 ug/mL, 5000 ug/mL	N/A	N/A	3 mg/Kg-IP Mouse
BENZYL ALCOHOL 1.5% V/V	50 ug-eye-rabbit severe irritation	N/A	1230 mg/Kg- Oral Rat

Section III – Physical Characteristics	
Boiling Point: NO DATA AVAILABLE	Specific Gravity (H <sub>2</sub> O = 1): 1.006
Vapor Pressure (mm Hg.): NO DATA AVAILABLE	Melting Point:
Vapor Density (AIR = 1): NO DATA AVAILABLE	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: SOLUBLE	
Appearance and Odor: CLEAR, DARK RED, NON-VISCOUS LIQUID, FAINT ODOR OF BENZYL ALCOHOL	

Section IV – Fire and Explosion Hazard Data	
Flash Point ( <i>Method Used</i> ): NO DATA AVAILABLE	Flammable Limits: LEL (Lower Explosive Limit) - N/A UEL (Upper Explosive Limit) - N/A
Extinguishing Media: WATER SPRAY, CO <sub>2</sub> , DRY CHEMICAL POWDER, FOAM	
Special Fire Fighting Procedures: WEAR FULL FACEPLATE AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS	
Unusual Fire and Explosion Hazards: NONE	

Section V – Reactivity Data			
Stability	Unstable		Conditions to Avoid: NONE KNOWN
	Stable	X	
Incompatibility ( <i>Materials to Avoid</i> ): OXIDIZING AGENTS			
Hazardous Decomposition or Byproducts: CARBON MONOXIDE, CARBON DIOXIDE			
Hazardous Polymerization	May Occur		Conditions to Avoid: NONE KNOWN
	Will Not Occur	X	

<b>Section VI – Health Hazard Data</b>			
Route(s) of Entry:	Inhalation-none	Skin-Minor	Ingestion-Primary
Health Hazards (Acute and Chronic)			
Carcinogenicity:	NTP-Non-carcinogenic (National Toxicology Program)	IARC Monographs (International Agency for Research in Cancer)	OSHA Regulated-Yes
Signs and Symptoms of Exposure: Data not available			
Medical Conditions Generally Aggravated by Exposure: None known			
Emergency / First Aid Procedures	Ingestion: INDUCE VOMITING ONLY ON THE ADVICE OF A MEDICAL PROFESSIONAL		
	Inhalation: REMOVE TO FRESH AIR, SEEK PROMPT MEDICAL ATTENTION IF IRRITATION DEVELOPS		
	Eye Contact: WASH WITH COPIOUS AMOUNTS OF WATER		
	Skin Contact: WASH WITH SOAP AND COPIOUS AMOUNTS OF WATER		

<b>Section VII – Precautions for Safe Handling and Use</b>
Accidental Release Measures: SWEEP OR MOP UP RELEASED MATERIAL TO SUITABLE CONTAINER
Waste Disposal Method: DISPOSAL IN DRY LANDFILL IS ACCEPTABLE. ENSURE COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS
Handling and Storing: READ AND FOLLOW ALL LABEL DIRECTIONS
Other Precautions: FOR VETERINARY USE ONLY

<b>Section VIII – Control Measures</b>		
Respiratory Protection (Specify Type): NONE REQUIRED		
Ventilation	Local Exhaust: GENERAL DILUTION OR LOCAL EXHAUST	Special:
	Mechanical (General):	Other:
Protective Gloves: RUBBER GLOVES		Eye Protection: SAFETY GLASSES OR GOGGLES MAY BE USED
Other Protective Clothing or Equipment: NONE REQUIRED		
Work / Hygienic Practices:		

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