

# SAFETY DATA SHEET

	Section 1: Identification	
Section 1, Identification		
Product Name	Cyanocobalamin Injection 1000mcg/m	L
Cat No:	AC405920000; AC405920010; AC40592	20050; AC405920250; AC405925000
CAS No.	68-19-9	
	N/1	
Synonyms	Vitamin B12	
Recommended Use	Laboratory chemicals	
Uses Advised Against	Food, drug, pesticide or biocidal produ	ct use
Distributor	SOLA Pharmaceuticals	
	655 Highlandia Drive, Ste B	
	Baton Rouge, LA. 70810	
	Tel: 866.747.7365	
	Fax: 800.754.9550	
	www.solameds.us	
	info@solameds.us	
NDC Number	70512-840-01 (1mL)	
	70512-840-25 (25's 1mL)	
	Section 2: Hazard(s) Identification	
Section 2, Hazard(s) Identification		
<b>Classification</b>		
Classification under 2012 OSHA Hazard	Communication Standard (29 CFR 1910	.1200).
This chemical is not considered hazardo	ous by the 2012 OSHA Hazard Communi	cation Standard (29 CFR 1910.1200).
Label Elements		
None required.		
Hazards Not Otherwise Classified (HNC None identified		
Section	3: Composition/Information on Ing	redients
Section 3, Composition/Information of	· · · · ·	
Component	CAS No.	Weight %
Vitamin B12	68-19-9	96
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Section 4: First-Aid Measures           Section 4, First-Aid Measures         Eye Contact         Rinse immediately with plenty of water, also under the eyelids, for at least 1 minutes. Get medical attention.           Skin Contact         Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.           Inhalation         Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.           Ingestion         Do NOT induce vomiting. Get medical attention.           Most important symptoms and Effects         No information available           Section 5, Fire-Fighting Measures         Section 5: Fire-Fighting Measures           Suitable Extinguishing Media         Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam.           Unsuitable Extinguishing Media         No information available.           Flash Point         No information available.           Autoignition Temperature         No information available.           Sensitivity to Kechanical Impact         No information available.           Sensitivity to Static Discharge         No information available.           <				
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Skin Contact     Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.       Inhalation     Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.       Ingestion     Do NOT induce vomiting. Get medical attention.       Most important symptoms and Effects     No information available       Notes to Physician     Treat symptomatically       Section 5. Fire-Fighting Measures     Section 5: Fire-Fighting Measures       Suitable Extinguishing Media     No information available.       Flash Point     No information available.       Method     No information available.       Explosion Limits     No information available.       Upper     No data available.       Lower     No data available.       Sensitivity to Mechanical Impact     No information available.       Sensitivity to Mechanical Impact     No information available.       Specific Hazards Arising From The Chemical     No information available.       Thertmal decomposition can lead to release of irritating gases and vapors.     Hazardous of phosphorus.       Protective Equipment and Precautions for Firefighters     Asin any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.       NEPA     Health     Flammability     Instability     Physical Hazards				
Inhalation       medical attention immediately if symptoms occur.         Inhalation       Remove to fresh air. Get medical attention immediately if symptoms occur.         Ingestion       Do NOT induce vomiting. Get medical attention.         Most important symptoms and Effects       No information available         Notes to Physician       Treat symptomatically         Section 5, Fire-Fighting Measures       Section 5: Fire-Fighting Measures         Soutable Extinguishing Media       Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam.         Unsuitable Extinguishing Media       No information available.         Flash Point       No information available.         Method       No information available.         Lower       No data available.         Lower       No data available.         Sensitivity to Static Discharge       No information available.         Specific Hazards Arising From The Chemical       Thermal decomposition can lead to release of irritating gases and vapors.         Hazardous Combustion Products       No information available.         Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Oxides of phosphorus.         Protective Equipment and Precautions for Firefighters         As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.       N/A	Eye Contact			•
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Effects       Treat symptomatically         Section 5: Fire-Fighting Measures         Section 5, Fire-Fighting Measures         Suitable Extinguishing Media       Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam.         Unsuitable Extinguishing Media       No information available. Flash Point       No information available. Method         Autoignition Temperature       No information available. Lower       No data available. No data available. Sensitivity to Mechanical Impact       No data available. No information available.         Specific Hazards Arising From The Chemical       No information available.       Sensitivity to Static Discharge       No information available.         Specific Hazards Arising From The Chemical       Thermal decomposition can lead to release of irritating gases and vapors.       Heatm Approved or equivalent) an full protective gear.         Mitrogen oxides (NOX). Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Oxides of phosphorus.       Protective Equipment and Precautions for Firefighters         As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.       Physical Hazards         MEPA       Health       Flammability       Instability       Physical Hazards	Ingestion	Do NO	Γ induce vomiting. Get n	nedical attention.
Section 5: Fire-Fighting Measures         Suitable Extinguishing Media       Water spray. Carbon dioxide (CO2). Dry chemical. Chemical foam.         Unsuitable Extinguishing Media       No information available.       Intervention available.         Flash Point       No information available.       Intervention available.         Method       No information available.         Autoignition Temperature       No information available.         Lower       No data available.         Lower       No data available.         Sensitivity to Mechanical Impact       No information available.         Sensitivity to Static Discharge       No information available.         Specific Hazards Arising From The Chemical       No information available.         Thermal decomposition can lead to release of irritating gases and vapors.         Hazardous Combustion Products       Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of phosphorus.         Protective Equipment and Precautions for Firefighters       As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.         MEPA       Health       Flammability       Instability       Physical Hazards         1       1       1       N/A		No info	rmation available	
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Flash Point Method       No information available. No information available.         Autoignition Temperature Explosion Limits       No information available. Explosion Limits         Upper       No data available. Lower         No data available. Sensitivity to Mechanical Impact       No information available. Sensitivity to Static Discharge         Specific Hazards Arising From The Chemical Thermal decomposition can lead to release of irritating gases and vapors.         Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of phosphorus.         Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.         NEPA 1       1       1       N/A	Suitable Extinguishing Media		Water spray. Carbon d	ioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam.
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UpperNo data available.LowerNo data available.Sensitivity to Mechanical ImpactNo information available.Sensitivity to Static DischargeNo information available.Specific Hazards Arising From The Chemical Thermal decomposition can lead to release of irritating gases and vapors.Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of phosphorus.Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.NFPA 1InstabilityPhysical Hazards N/A			No information availabl	le.
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Sensitivity to Static Discharge       No information available.         Specific Hazards Arising From The Chemical Thermal decomposition can lead to release of irritating gases and vapors.         Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Oxides of phosphorus.         Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.         NFPA       Health       Flammability       Instability       Physical Hazards         1       1       1       N/A			No data available.	
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Thermal decomposition can lead to release of irritating gases and vapors.         Hazardous Combustion Products         Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Oxides of phosphorus.         Protective Equipment and Precautions for Firefighters         As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.         NFPA         Health       Flammability       Instability       Physical Hazards         1       1       1       N/A	-	•	No information availabl	le.
Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of phosphorus.         Protective Equipment and Precautions for Firefighters         As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.         NFPA         Health       Flammability       Instability       Physical Hazards         1       1       1       N/A			ritating gases and vapor	s.
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) an full protective gear.           NFPA         Health         Flammability         Instability         Physical Hazards           1         1         1         N/A			Carbon dioxide (CO <sub>2</sub> ).	Oxides of phosphorus.
HealthFlammabilityInstabilityPhysical Hazards111N/A	As in any fire, wear self-containe		-	d, MSHA/NIOSH (approved or equivalent) and
1 1 1 N/A	<u>NFPA</u>			
	Health I	lammability	Instability	Physical Hazards
Section 6. Accidental Palance Measures	1	1	1	N/A
Section 6: Accidental Release Measures		Section 6	Accidental Release N	Aeasures



Section 6, Accidental	Release Measures			
Personal Precautions	Ensure ac	lequate ventilation. Use pers	onal protective equipme	ent as required.
Environmental Precau	<b>itions</b> Should no	ot be released into the enviro	nment.	
Methods for Containr And Clean Up	<b>nent</b> Sweep up	and shovel into suitable cont	tainers for disposal.	
		Section 7: Handling and St	orage	
Section 7, Handling ar				
Handling		ntact with skin and eyes. Do n	ot breathe dust.	
Storage	•	dry, cool and well-ventilated t. Protect from moisture. Inc	• •	
		Exposure Controls / Perso		
Section 8, Exposure C				
Exposure Guidelines				
Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Vitamin B12		(vacated (TWO: 5mg/m <sup>3</sup>	IDLH: 25mg/m <sup>3</sup>	
Personal Protective Ed Eye/Face Prot	ection V	Vear appropriate protective e escribed by OSHA's eye and fa r European Standard EN 166.		
Skin and Body	<b>Protection</b> V	Vear appropriate protective g	loves and clothing to pro	event skin exposure.
Respiratory P	rotection N	lo protective equipment is ne	eded under normal use	conditions.
Hygiene Meas	sures H	andle in accordance with goo	d industrial hygiene and	safety practices.
	Sectio	n 9: Physical and Chemica	l Properties	
Section 9, Physical an	d Chemical Propert	ies		
Physical State		olid		
Appearance		bark Red		
Odor		lo information available		
Odor Threshold		lo information available		
pH Malting Daint (Dansa		lo information available		
	•	الماملية منته المليات		
Melting Point/Range		lo data available		
Boiling Point/Range Flash Point	N	lo data available lo information available lo information available		



Evaporation Rate	Not applicable
Flammability (solid, gas)	No information available
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C63 H88 Co N14 O14 P
Molecular Weight	1355.38
	Section 10: Stability and Reactivity
Section 10, Stability and Reactivity	
Reactive Hazard	None known, based on information available.
Stability	Stable under normal conditions. Hygroscopic. Light sensitive.
Conditions to Avoid	Exposure to light. Incompatible products. Exposure to moist air or water.
Incompatible Materials	Acids, Strong Acids
Hazardous Decomposition Products	Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Oxides of phosphorus.
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
S	Section 11: Toxicological Information
Section 11, Toxicological Information	5
Acute Toxicity	
Product Information	No acute toxicity information is available for this product.
Component Information Toxicologically Synergistic Products	No information available
Delayed and Immediate Effects As We	II As Chronic Effects from Short and Long-Term Exposure
Irritation	May cause skin, eye, and respiratory tract irritation.
Sensitization	No information available
Carcinogenicity	The table below indicates whether each Agency has listed any ingredients as a carcinogen.



Component	CAS No.	IARC	NTP	ACGIH	OSHA	Mexico
Vitamin B12	68-19-9	Not listed	Reasonably Anticipated	Not listed	Not listed	Not listed
Mutagenic Effect	S	No inform	nation available			
Reproductive Eff Developmental E			nation available nation available			
Teratogenicity		No inform	nation available			
STOT – single exp STOT – repeated		None kno None kno				
Aspiration Hazar	d	No inform	nation available			
Symptoms/Effect And Delayed	ts, Both Acute	No inform	ation available			
Endocrine Disrup	tor Information	No inform	nation available			
Other Adverse Ef	fects		ological properties		ully investigated.	
· · · · · ·	· · · ·	Section 1	2: Ecological In	formation		
	gical Information					
<u>Ecotoxicity</u>						
Persistence and I	Degradability	Soluble in	water. Persisten	ce is unlikely bas	ed on informatio	n available.
Bioaccumulation	Accumulation	No inform	nation available			
Mobility			be mobile in the		to its water solu	bility.
:			8: Disposal Cons	siderations		
	sal Considerations				1 .1	
Waste Disposal N	Aethods	classified local, regi	waste generators as a hazardous wa onal, and nationa ate classification.	aste. Chemical w	aste generators r	nust also consul
			4: Transport In	formation		
Section 14. Trans	port Information					
DOT	Not regulate	ed				
TDG	Not regulate					
IATA	Not regulat					
IMDG/IMO	Not regulate					



#### **Section 15: Regulatory Information**

# Section 15, Regulatory Information

# United States of America Inventory

Component	CAS No.	TSCA	TSCA Inventory Notification – Active/Inactive	TSCA – EPA Regulatory Flags
Vitamin B12	68-19-9	Х	ACTIVE	

Legend:

Legenar	
TSCA	US EPA (TSCA) – Toxic Substances Control Act; 40 CFR Part 710
Х	Listed
<u>"_"</u>	Not listed

## TSCA 12(b) – Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL)

Component	CAS No.	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Vitamin B12	68-19-9	Х	-	200- 680-0	Х		Х	Х	Х	KE- 11218

KECL – NIER number or KE number (<u>http://ncis.nier.go/kr/en/main.do</u>

### **U.S. Federal Regulations**

#### SARA 313

Component	CAS No.	Weight %	SARA 313 – Threshold Values %
Vitamin B12	68-19-9	96	1.0 0.1

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Not applicable

Component	CWA – Hazardous Substances	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants
Vitamin B12	-	-	Х	Х

## **Clean Air Act**

Not applicable

Not applicable

Component	HAPS Data	Class 1 Ozone Depletors	<b>Class 2 Ozone Depletors</b>
Vitamin B12	Х		-

OSHA – Occupational Safety And Health Administration



		Not applicable			
California Proposit	ion 65	This product doe	s not contain any Pro	position 65 chemical	S.
U.S. State Right-To	-Know Regulation	S			
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Vitamin B12	-	Х	Х	Х	Х
U. S. Department o	of Transportation				
Reportable Quantit	:y (RQ)	Ν			
DOT Marine Polluta	ant	Y			
DOT Severe Marine	e Pollutant	Ν			
Security			s not contain any DSF	i chemicais.	
Security Other Internationa	I Regulations			i chemicais.	
	I Regulations	No information a		i chemicais.	
Other Internationa	-	No information a		i chemicais.	
<u>Other Internationa</u> Mexico – Grade Authorization/Reg	istriction Accordin	No information a <b>bg to EU REACH</b>			

	Vitamin B12	68-19-9	Not applicable	Not applicable	Not applicable	Not applicable
	Component	CAS No.	Seveso III Directive (2012/18/EC) – Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) – Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
	Vitamin B12	68-19-9	Not Applicable	Not applicable	Not applicable	Not applicable
Section 16: Other Information						

## Section 16, Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

**SOLA** shall not be held liable for any damage resulting from handling or from contact with the above product. SOLA reserves the right to revise this Safety Data Sheet.