SAFETY DATA SHEETS

This SDS packet was issued with item: 078696913

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078696921 078834965 078917179 078917195



VITAMIN B-COMPLEX 100 INJECTION

SAFETY DATA SHEET

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1. IDENTIFICATION OF	F THE SUBSTANCE/MIXTURE AND OF THE COMPANY
Product Identifier	
Product name: Vitamin B-Complex 100) Injection
Intended Use of the Product	
	eutical. For parenteral administration of vitamins. Refer to product insert for usage
instructions and product information.	
Name, Address, and Telephone of	the Responsible Party
Supplier:	Manufacturer:
Mylan Institutional LLC	Mylan Teoranta
1718 Northrock Court	Galway, Ireland
Rockford, IL 61103 USA	
800.848.0462	
www.mylan.com	
Emergency Telephone Number	
Emergency number	: +1 877-446-3679
2.	HAZARDS IDENTIFICATION
product in its final form presents minima <u>Classification of the Substance or 1</u> <u>Classification (GHS-US)</u> Eye Irrit. 2A H319 <u>Label Elements</u> <u>GHS-US labeling</u> Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	 P264 - Wash hands, forearms, and exposed areas thoroughly after handling. P280 - Wear eye protection, protective gloves, protective clothing. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.
<u>Other Hazards</u>	ан <i>е</i> ни, на кала па па на с

Other hazards not contributing to the classification: May produce an allergic reaction.

Unknown acute toxicity (GHS-US) Not available

COMPOSITION/INFORMATION ON INGREDIENTS

Mixture			
Name	Product identifier	% (w/w)	Classification (GHS-US)
Nicotinamide	(CAS No) 98-92-0	10	Eye Irrit. 2A, H319
Thiazolium, 3-[(4-amino-2-methyl-5- pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-	(CAS No) 67-03-8	-	Not classified

02/11/2014

3. 3.4.

methyl- chloride, monohydrochloride			
Benzyl alcohol	(CAS No) 100-51-6	2	Flam. Liq. 4, H227
			Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Dermal), H312
			Acute Tox. 3 (Inhalation:vapour), H331
			Aquatic Acute 2, H401
Butanamide, 2,4-dihydroxy-N-(3-	(CAS No) 81-13-0	-	Not classified
hydroxypropyl)-3,3-dimethyl-, (R)-			
3,4-Pyridinedimethanol, 5-hydroxy-6-methyl-,	(CAS No) 58-56-0	-	Not classified
hydrochloride			
Riboflavin 5'-(dihydrogen phosphate),	(CAS No) 130-40-5	-	Not classified
monosodium salt			
Full taxt of U phrases: see section 16	•		

Full text of H-phrases: see section 16

Additional Information: Sodium Hydroxide and/or Hydrochloric Acid may have been used to adjust pH.

FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: The risk of inhalation exposure is negligible when product is in its final packaged form. If exposed and become symptomatic, move to fresh air and get medical attention if symptoms persist.

Skin Contact: Basic hygiene and appropriate precautions should prevent skin contact. If skin contact occurs, wash affected area with soap and water for at least 15 minutes. Should skin irritation, allergic reaction, or rash occur, remove contaminated clothing (if required) and seek medical advice.

Eye Contact: The risk of eye exposure is negligible when product is in its final packaged form. If eye contact occurs, flush immediately with water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Ingestion: Ingestion is not an anticipated route of exposure. If accidental ingestion occurs, flush mouth out with water and get medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Please refer to the package insert for more detailed information.

Inhalation: Inhalation is not expected to be a potential route of exposure.

Skin Contact: May be irritating to the skin or produce an allergic reaction in individuals sensitive to one or more ingredients. Eye Contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal irritation.

Injection: Mild transient diarrhea, swelling, and in some cases, allergic/anaphylactic reaction.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. In the event of accidental injection, go immediately to the nearest emergency room.

5.

4.

FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media: Dry chemical powder, alcohol foam, carbon dioxide, water spray, fog.

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire hazard: Not considered flammable but may burn at high temperatures.

Explosion hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Other information: Refer to Section 9 for flammability properties.

6.

ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General measures: Avoid all eye and skin contact and do not breathe vapor and mist.

For Non-Emergency Personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective equipment: Equip cleanup crew with proper protection.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

Methods for cleaning up: For small quantities associated with normal therapeutic use, collect spillage and transfer to a closed waste container for disposal. For large or bulk quantities, after absorption with inert material, collect spillage by sweeping up spilled material and place in a labeled, sealed container for proper disposal.

Reference to Other Sections

7.

8.

9.

See heading 8, Exposure Controls and Personal Protection.

HANDLING AND STORAGE

Precautions for Safe Handling

Patients/Consumers: Patients should adhere to the instructions provided within the product information insert or product label for appropriate consumer-specific information about this product when used according to the physician's directions. **Hygiene measures:** This SDS is for a pharmaceutical agent - Handling of this product in its final form presents minimal occupational exposure risk. In an occupational setting, handle in accordance with good industrial hygiene and safety procedures. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use appropriate personal protective equipment when handling and observe good personal hygiene measures after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Storage conditions: Store in a dry, cool and well-ventilated place. Protect from heat and direct sunlight. Store in original container. Do not freeze.

Storage temperature: 2-8°C (36-46°F)

Special rules on packaging: Phase separation due to reduced solubility can occur under certain conditions of shipping or storage (e.g. accidental freezing), which may produce visible particles. Do not use product if these do not redissolve on warming to body temperature and shaking well.

Specific End Use(s)

Pharmaceutical. Refer to product insert for usage instructions and product information.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate engineering controls: Not generally required. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal protective equipment: Gloves. In case of splash hazard: safety glasses. Protective clothing.

Hand protection: Wear protective gloves made from PVC, neoprene, nitrile, vinyl, or PVC/NBR.

Eye protection: In laboratory, medical or industrial settings, or operations in which airborne particulates will be generated, safety glasses with side shields are recommended.

Skin and body protection: In laboratory, medical or industrial settings, impervious disposable gloves and protective clothing are recommended if skin contact with drug product is possible.

Respiratory protection: When manufacturing or handling product in large quantities and dusts or particulates may be generated, maintain airborne concentrations below recommended limits. Workplace risk assessments should be completed before specifying and implementing respirator usage. NIOSH/MSHA approved respirators for protection should be used if respirators are found to be necessary.

PHYSICAL AND CHEMICAL PROPERTIES

Info	orn	na	tio	on	on	Bas	sic	Ph	vsic	al	and	C	her	nica	al 🛛	Pro	op	ert	ies	
DI	•																_		т.	

Physical state	:	Liquid
Appearance	:	Clear
Odor	:	Odorless
Odor threshold	:	Not available
рН	:	Not available
Relative evaporation rate (butyl acetate=1)	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flash point	:	Not available
Auto-ignition temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Lower flammable limit	:	Not available

Upper flammable limit		: Not available		
Vapor pressure		: Not available		
Relative vapor density at 20 °C		: Not available		
Relative density		: Not available		
Specific gravity		: Not available		
Solubility		: Not available		
Log Pow		: Not available		
Log Kow		: Not available		
Viscosity, kinematic		: Not available		
Viscosity, dynamic		: Not available		
Explosion data - sensitivity to me	-	: Not available		
Explosion data - sensitivity to sta	tic discharge	: Not available		
10.		AND REACTIVITY		
	will not occur under nor	rmal conditions.		
	er normal conditions.			
Possibility of Hazardous Reaction		erization will not occur.		
	oxidizers. Strong bases.	low temperatures. Ignition sources.		
Incompatible Materials Strong Hazardous Decomposition Produ				
11.		CAL INFORMATION		
		CALINFORMATION		
Information on Toxicological	Effects - Product			
Acute toxicity: Not classified LD50 and LC50 Data: Not availa	bla			
Skin Corrosion/Irritation: Not al				
Serious Eye Damage/Irritation: (tion.		
Respiratory or Skin Sensitization				
Germ Cell Mutagenicity: Not cla				
Teratogenicity: Not available				
Carcinogenicity: Not classified				
Specific Target Organ Toxicity (Not classified		
Reproductive Toxicity: Not classi		1		
Specific Target Organ Toxicity (Aspiration Hazard: Not classified		classified		
Information on Toxicological Eff				
LD50 and LC50 Data:	<u>cets - Ingreatent(s)</u>			
Benzyl alcohol (100-51-6)				
LD50 oral rat		1230 mg/kg		
LD50 dermal rabbit		2 g/kg		
LD50 Intravenous Rat		53 mg/kg		
LC50 inhalation rat (mg/l)		8.8 mg/l/4h		
Nicotinamide (98-92-0)				
LD50 dermal rabbit		> 2000 mg/kg		
ATE (oral)		3500.000 mg/kg		
· · · · ·	ECOLOGIC			
12.	ECOLOGICA	AL INFORMATION		
Toxicity				
Benzyl alcohol (100-51-6)	4(0			
LC50 fish 1	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) 23 mg/l (Exposure time: 48 h - Species: water flea)			
EC50 Daphnia 1 LC50 fish 2		he: 96 h - Species: Lepomis macrochirus [static])		
	10 mg/1 (Exposure tim	ie. 70 n - Species. Leponns macrochnus [static])		
Nicotinamide (98-92-0) LC50 fish 1	> 1000 mg/l (Evens	a time: 06 h. Spaciae: Descilia rationate [statia])		
		e time: 96 h - Species: Poecilia reticulata [static])		
Develotion on and Decreadel 114-				
Persistence and Degradability	Not available			
Bioaccumulative Potential	V Not available			
		.1		

13.	DISPOSAL CONSIDERATIONS
	Dispose of waste material in accordance with all local, regional, national, provincial,
	ons. Do not dispose of waste into sewer.
	nated sharps should be discarded immediately or as soon as possible in containers that are
	roof on sides and bottoms, and appropriately labeled. Contact your local health department for
referral to a Safe Syringe Disposal	
14.	TRANSPORT INFORMATION
In Accordance With ICAO/IATA	/DOT/TDG
UN Number Not regulated for	transport
UN Proper Shipping Name	Not regulated for transport
15.	REGULATORY INFORMATION
US Federal Regulations	
Vitamin B-Complex 100 Injection	1
SARA Section 311/312 Hazard C	
Benzyl alcohol (100-51-6)	
	Toxic Substances Control Act) inventory
	hate), monosodium salt (130-40-5)
	(Toxic Substances Control Act) inventory
Nicotinamide (98-92-0)	
	(Toxic Substances Control Act) inventory
	l-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl- chloride, monohydrochloride (67-
03-8)	· · · · · · · · · · · · · · · · · · ·
	Toxic Substances Control Act) inventory
	-hydroxypropyl)-3,3-dimethyl-, (R)- (81-13-0)
	(Toxic Substances Control Act) inventory
	xy-6-methyl-, hydrochloride (58-56-0)
	(Toxic Substances Control Act) inventory
US State Regulations	
Benzyl alcohol (100-51-6)	
U.S Massachusetts - Right To Kr	now List
U.S Minnesota - Hazardous Subs	
U.S New Jersey - Water Quality	- Ground Water Quality Criteria
U.S New Jersey - Water Quality	- Practical Quantitation Levels (PQLs)
U.S Pennsylvania - RTK (Right t	
U.S Texas - Effects Screening Le	evels - Short Term
Canadian Regulations	
Vitamin B-Complex 100 Injection	
WHMIS Classification Cl	ass D Division 2 Subdivision B - Toxic material causing other toxic effects
$\mathbf{\cdot}$	
Benzyl alcohol (100-51-6)	
Listed on the Canadian DSL (Dom	estic Substances List) inventory
Listed on the Canadian Ingredient	
	ass B Division 3 - Combustible Liquid
	ass D Division 2 Subdivision B - Toxic material causing other toxic effects
	hate), monosodium salt (130-40-5)
Listed on the Canadian DSL (Dom	
Nicotinamide (98-92-0)	/ *
Listed on the Canadian DSL (Dom	estic Substances List) inventory.
	ncontrolled product according to WHMIS classification criteria
	rl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl- chloride, monohydrochloride (67-
03-8)	1-3-pyrinnumyi/metnyij-3-(2-nyuroxyetnyi)-4-metnyi- emoriue, mononyuroemoriue (0/-
Listed on the Canadian DSL (Dom	estic Substances List) inventory.

Butanamide, 2,4-dihydroxy-N-(3-hydroxypropyl)-3,3-dimethyl-, (R)- (81-13-0) isted on the Canadian DSL (Domestic Substances List) inventory.						
3,4-Pyridinedimethanol, 5-hydroxy-6-methyl-, hydrochloride (58-56-0)						
Listed on the Canadian DSL (Domestic Substances List) inventory.						
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the						
MSDS contains all of the information required by CPR.						
16. OTHER INFORMATION						
Revision date : 02/11/2014						
Data sources : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard						
Communication Standard 29 CFR 1910.1200.						
Other information : This document has been prepared in accordance with standards for workplace safety. The						
precautionary statements and warnings included might not apply in all cases. Your needs may						
vary depending on the potential for exposure in your workplace.						
GHS Full Text Phrases:						
Acute Tox. 3 (Inhalation:vapour) Acute toxicity (inhalation:vapour) Category 3						
Acute Tox. 4 (Dermal) Acute toxicity (dermal) Category 4						
Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4						
Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2						
Eye Irrit. 2A Serious eye damage/eye irritation Category 2A						
Flam. Liq. 4 Flammable liquids Category 4						

Party Responsible For The Preparation Of This Document:

Mylan Global Environmental, Health, and Safety Department Phone Number: 304-599-2595

This MSDS has been prepared for occupational exposure and intended to address some end-user concerns; however, patients/consumers are also strongly encouraged to review the product information insert or product label for consumer-specific information about this product. Patients/Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions.

Harmful if swallowed

Toxic if inhaled

Toxic to aquatic life

Harmful in contact with skin

Causes serious eye irritation

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

North America Mylan Pharmaceuticals

H302

H312

H319

H331

H401