		MATERIAL SAFETY DATA SHEET						
	VITAMIN B1							
Sec	tion 1. Identification	n of the Substance/Mixture and of the Company/Undertaking						
1.1	Product Code:	25656						
	Product Name:	VITAMIN B1						
	Synonyms:	3-[(4-amino-2-methyl-5-pyrimidinyl) methyl]-5-(2-hydroxyethyl)-4-methyl-						
		thiazolium, monochloride, monohydrochloride; Aneurine; Thiamine.						
1.2	Relevant identifie	d uses of the substance or mixture and uses advised against:						
R	elevant identified u	ses:For research use only, not for human or veterinary use.						
1.3	Details of the Sup	oplier of the Safety Data Sheet:						
(Company Name:	RAWPHARMA BIZ PVT LTD						
		1101-CITY CENTRE-2						
		SCIENCE CITY ROAD, SOLA						
		AHMEDABAD, 380060						
		GUJARAT, INDIA.						
	Web site address	www.rawpharmabiz.com						
1.4	Emergency telep	hone number: 8320310672						
1								

	Section 2. Hazards Identification
2.1	Classification of the Substance or Mixture:
	Serious Eye Damage/Eye Irritation,
	Category 2
2.2	Label Elements:
	GHS Signal Word: Warning
	GHS Hazard Phrases:
	H319: Causes serious eye irritation.
	GHS Precaution Phrases:
	P264: Wash {hands} thoroughly after handling.
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
	GHS Response Phrases:
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P337+313: If eye irritation persists, get medical advice/attention.
	GHS Storage and Disposal Phrases:
	Please refer to Section 7 for Storage and Section 13 for Disposal information.
2.3A	Adverse Human Health Causes serious eye irritation.
Effe	cts and Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract.
	May be harmful by inhalation, ingestion, or skin absorption.
	May cause skin or respiratory system irritation.
Т	o the best of our knowledge, the toxicological properties have not been thoroughly investigated.

		Section 3. Composition	on/Information or	n Ingredients	S	
-		Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification	
			100.0 %	200-641-8 NA	Eye Damage 2: H319	
			First Aid Measure	es	I	
4.	1 Desc	cription of First Aid				
		Measures:				
	In C	ase of Inhalation: Remove to	fresh air. If not br	eathing, give	e artificial respiration or	
		give oxygen by t	rained personnel.	Get immedia	ate medical attention.	
	In Ca	ase of Skin Contact: Immediately	wash skin with soa	ap and plenty	of water for at least 15	
		minutes. Remo	ve contaminated	clothing. Get	medical attention if	
		symp	toms occur. Wash	clothing bef	ore reuse.	
	In Ca	ase of Eye Contact: Hold eyelid	s apart and flush	eyes with ple	enty of water for at least	
		15 minutes. Hav	e eyes examined	and tested by	y medical personnel.	
	In Ca	give anything by me	outh to an uncons	cious persor	on is conscious. Never a. Get medical attention. by medical personnel.	
			re Fighting Meas			
5.1	Suita	ble Extinguishing Use alcohol	-resistant foam, ca	rbon dioxide	e, water,	
	or dry	chemical spray. Media: Use v	vater spray to cool	fire-expose	d	
	contai	ners.				
	Unsu Media	itable Extinguishing A solid water	stream may be in	efficient.		
5.2Flammable Properties No data available.						
	Hazaı	ds:				
		No data available.				
	Flash I	Pt: No data.				
	Explosi	ve Limits:LEL: No data.	UEL:	No data.		
	Autoign	ition Pt: No data.				

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, avoid breathing vapors and provide adequate ventilation.

Protective Equipment and as conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 EnvironmentalTake steps to avoid release into the environment, if safe to do so. **Precautions:**

6.3Methods and Material for Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions to Be Taken Avoid breathing dust/fume/gas/mist/vapors/spray.

in Handling: Avoid prolonged or repeated exposure.

7.2Precautions to Be Taken Keep container tightly closed.

5.3

in Storing: Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory EquipmentNIOSH approved respirator, as conditions warrant. **(Specify Type):**

Work/Hygienic/maintenance Do not take internally.

Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.

	Basic Physical and Chemical Properties	
Physical States:	[]Gas []Liquid [X]	
Solid Appearance	and Odor: A crystalline solid	
pH: No data.		
Melting Point:	No data.	
Boiling Point:	No data.	
Flash Pt:	No data.	
Evaporation Rate:	No data.	
Flammability (solid, g	gas): No data available.	
Explosive Limits:		
Vapor Pressure (vs. A Hg):		
Vapor Density (vs. Ai	ir = 1): No data.	
Specific Gravity (Wat	ter = 1):No data.	
Solubility in Water:	No data.	
Solubility Notes:	~10 mg/ml in PBS (pH 7.2);	
Octanol/Water Pa	artition No data.	
Coefficient:		
Autoignition Pt:	No data.	
Decomposition Temp	perature:No data.	
Viscosity:	No data.	
.2 Other Informatio	on	
Percent Volatile:	No data.	
l'elcent volatile.	• Weight: C12H17N4OS • CI [HCI] 337.3	

	Section 10. Stability and Reactivity									
10.1Reactiv	IO.1Reactivity: No data available.									
10.2Stability	0.2Stability: Unstable [] Stable [X]									
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product										
insert.	insert. Polymerization: Will occur [] Will not occur [X]									
10.4Conditio	10.4Conditions to Avoid: No data available.									
10.5 Incom	10.5 Incompatibility - Materials strong									
oxidizir	ng agents T	o Avoid:	:							
10.6Hazardo	ous	carbon	dioxide	;						
Decompo	osition or	carbon r	nonoxi	de						
Byprodu	ucts:	hydroge	n chlor	ide gas						
		0	en oxio [·] oxides							
					cological l	nformatio	n			
11.1Informa	tion on the	toxicolo	gical ef	fects of t	his produc	t have not	been thore	oughly stud	died.	
	11.1Information on the toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Thiamine (hydrochloride) - Toxicity Data: Oral LD50 (rat): 3710 mg/kg; Intraperitoneal LD50 (rat):									
		481 m	ng/kg; S	Subcutar	neous LD5	0 (rat): 560	mg/kg; Or	al LD50 (n	nouse):	
		8224	mg/kg;	Intraper	itoneal LD	50 (mouse)): 200 mg/ł	kg; Subcut	aneous	
		LD50	(mous	e): 266 n	ng/kg;					
Chronic T product.	Foxicologi	al Thiam	ine (hy	drochlor	ide) - Inves	stigated as	a drug, mi	utagen, an	dnatural	
Effects	5:	Onlys	select F	Registry	of Toxic Ef	fects of Ch	emical Su	bstances (RTECS)	
		data i	s prese	entedhei	re. See act	ual entry ir	RTECS fo	or complet	е	
		inform	nation.							
	Thiamine (hydrochloride) RTECS Number: XI7350000									
Carcinogen	icity: NTP?	'No	IARC	Monogra	aphs? No	OSHA	Regulated	d? No		
CAS #	Hazardous	s Compo	onents	(Chemio	cal Name)	NTP	IARC	ACGIH	OSHA	
67-03-8	Thiamine					n.a.	n.a.	n.a.	n.a.	

Section 12. Ecological Information					
2.1Toxicity:	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.				
2.2Persistence and Degradability:	d No data available.				
2.3Bio accumulativ Potential:	ve No data available.				
2.4Mobility in Soil:	No data available.				
2.5 Results of PBT available.	Fand vPvB: No data				
2.60ther adverse e	ffects:No data available				

	Section 13. Dispos	al Consideratio	ons					
13.1Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
	Section 14. Trans	port Informatio	on					
14.1 LAND TRANSPORT (US DOT):								
DOT Proper Shipping Name: Not dangerous goods.								
DOT Hazard Class:								
UN/NA Number:								
14.1 LAND TRANSPORT (European ADR/RID):								
	hipping Name:Not dangerous goods.							
UN Num								
Hazard								
	TRANSPORT (ICAO/IATA):							
ICAO/IATA	Shipping Name: Not dangerous goods							
	Transport Transport in accordance with	n local, state, ar	nd federal regula	ations.				
Information								
	Section 15. Regula	•						
	(Superfund Amendments and Reaut		•					
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
67-03-8	Thiamine	No	No	No				
CAS #	Hazardous Components (Chemical Name)	Other US EPA	or State Lists	<u>.</u>				
67-03-8								
	Inventory; CA PROP.65: No							
Regulatory Regulation	InformationThis SDS was prepared in (EC)	accordance wi	th 29 CFR 1910	.1200 and				
Statement:	No.1272/2008.							

Section 16. Other Information

Additional Information About: No data available.

This Product:

Company Policy or Disclaimer:

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their purposes.