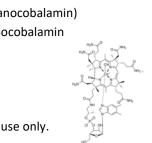
### **MATERIAL SAFETY DATA SHEET**

## **VITAMIN B12 (CYANOCOBALAMIN)**



#### **1 PRODUCT & COMPANY IDENTIFICATION**

Product Name:	Vitamin B12 (Cya
Synonyms:	Cobalamin, Cyano
CAS Number:	68-19-9
Formula:	C63H88C0N14O14P
Product Form:	Solid.
Product Use:	Industrial
	For professional u



**Chemical Structure** 

Supplier: ASES CHEMICAL WORKS. Address: Brahm Bagh, Jalori Gate Jodhpur - 342001 Rajasthan-India Phone: +91-9636889954 Web: www.ases.in Email : ecom@ases.in

#### **2 HAZARDS IDENTIFICATION**

Classification according to Regulation (EC) No. 1272/2008 [CLP] : Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]: Not classified Labelling according to Regulation (EC) No. 1272/2008 [CLP]: Other hazards:

Not classified No labelling applicable No data available

3 COMPOSITION/INFORMATION ON INGREDIENTS					
Component	CAS-No.	EC-No.	Formula	Mol. Weight.	
Vitamin B12 (Cyanocobalamin)	68-19-9	200-680-0	$C_{63}H_{88}CoN_{14}O_{14}P$	1355.37 g/mol	
Vitamin B12 (Cyanocobalamin)	08-19-9	200-680-0	C63H88CON14O14P	1355.37 g/moi	

# **4 FIRST AID MEASURES**

Eye:	Rinse immediately with plenty of water.
Skin:	Wash with plenty of water.
Inhalation:	Assure fresh air breathing. Allow the victim to rest.
Instigation:	Rinse mouth.

#### **5 FIRE-FIGHTING MEASURES**

Extinguishing media:	Water Foam, Carbon dioxide (CO2), Dry powder. Avoid water jet.
Fire hazard:	No additional information available.
Advice for firefighters:	Do not enter fire area without proper protective equipment, including respiratory protection.
Further information:	No data available

## **6 ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Use personal protective equipment as required.

Environmental precautions: Avoid release to the environment.

Methods and materials for containment and cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

# **7 HANDLING & STORAGE**

Handling:	Avoid contact with skin and eyes. Avoid dust formation. Wash hands and other exposed areas with
	mild soap and water before eating, drinking or smoking and when leaving work.
Storage:	Store in a well-ventilated place. Keep container tightly closed.

#### **8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering controls:	No additional information available.
Eye protection:	Chemical goggles or safety glasses
Personal protection:	Protective gloves. Wear suitable protective clothing.
<b>Respiratory protection</b>	: In case of insufficient ventilation, wear suitable respiratory equipment

## MATERIAL SAFETY DATA SHEET

# VITAMIN B12 (CYANOCOBALAMIN)

#### **9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance :	Solid.	Freezing point :	No data available
Colour:	Dark red	Boiling point :	No data available
Odour :	No data available	Flash point :	No data available
Odour threshold :	No data available	Flash point :	No data available
рН :	No data available	Relative density :	No data available
Melting point :	300 °C	Solubility (ies) :	Moderately soluble in water.

#### **10 STABILITY AND REACTIVITY**

Reactivity:	No additional information available.
Chemical Stability:	Stable under recommended storage conditions.
Hazardous Polymerization:	No additional information available.
Conditions to Avoid:	Direct sunlight. Moisture.
Incompatible Materials:	No additional information available.
Hazardous Decomposition Products:	No additional information available.

### **11 TOXICOLOGICAL INFORMATION**

Acute toxicity:	Not classified.	Carcinogenicity :	Not classified
Skin corrosion/irritation :	Not classified	Reproductive toxicity :	Not classified
Serious eye damage/irritation :	Not classified	STOT-single exposure :	Not classified
Respiratory or skin sensitisation :	Not classified	STOT-repeated exposure :	Not classified
Germ cell mutagenicity :	Not classified	Aspiration hazard :	Not classified

12 ECOLOGICAL INFORMATION	
Etoxicity:	No additional information available.
Persistence and degradability:	No additional information available.
Bioaccumulative potential:	No additional information available.
Mobility in soil:	No additional information available.
Results of PBT & vPvB assessment :	No additional information available.
Other adverse effects:	No additional information available.

13 DISPOSAL CONSIDERATIONS	
Disposal Product –	Dispose of product in accordance with local, state or provincial and federal regulations.

14 TRANSPORT INFORMATION	
IATA / IMO-IMDG / RID/ADR:	Not applicable.

15 REGULATORY INFORMATION	
Safety, health and environmental regulations/legislation specific for the substance or mixture : -	
EU-Regulations :-	No REACH Annex XVII restrictions
Chemical Safety Assessment :-	No additional information available

#### **16 OTHER INFORMATION**

The information above 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 ASES CHEMICAL WORKS assume no liability resulting from its use.