



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006, and OSHA guidelines

Date of issue	2019-07-08
Revision date	2019-07-08
Version	01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Trade name : Mecobalamin, Methylcobalamin
CAS No : 13422-55-4

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : For the enrichment of food products.
For solid multivitamin and monovitamin preparations.
Use of the substance/mixture : For professional use only
Function or use category : Dietary supplement and API

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Hebei Yuxing Bio-engineering Co.,Ltd.
Xicheng District, Ningjin County, Hebei Province, China.
Fax.: +86-319-5808191 +86-319-5801619 Tel.: +86-319-5808191

1.4. Emergency telephone number

Emergency number : +86-319-5808191

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] : Not classified
Classification according to Directive 67/548/EEC or 1999/45/EC : Not classified
Adverse physicochemical, human health and environmental effects : No additional information available
Physical hazards : Not classified
Health hazards : Not classified
OSHA hazard(s) : Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] : No labelling applicable
Hazard symbol : No symbol.
Signal word : Not available.
Hazard statement : Not available.

Precautionary statement

Prevention : Not available.
Response : Not available.
Storage : Not available.
Disposal : Not available.

2.3. Other hazards

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



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Hazard(s) not otherwise Not classified. classified (HNOC) : Not classified.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according To Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Mecobalamin (Main constituent)	(CAS No) 13422-55-4	≤ 100	Not classified	Not classified

Non-hazardous substance

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Move to fresh air. Call a physician if symptoms develop or persist.
- Skin contact : Rinse skin with water/shower. Get medical attention if irritation develops and persists.
- Eye contact : Rinse with water. Get medical attention if irritation develops and persists.
- Ingestion : Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : None known.

4.3. Indication of any immediate medical attention and special treatment needed

In all cases of doubt, or when symptoms persist, seek medical attention.

Provide general supportive measures and treat symptomatically

4.4. General information

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray. Carbon dioxide. Dry powder. Foam.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Reactivity : Stable under normal conditions. No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Precautionary measures fire : Use normal individual fire protective equipment.



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Firefighting instructions : As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid raising dust. Avoid all unnecessary exposure.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Clean thoroughly. Clean with water

6.4. Reference to other sections

No additional information available

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid all unnecessary exposure.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : To guarantee the quality and properties of the product, In airtight containers protected from light. Store in original container.

Incompatible products : Strong oxidizing agents

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure control/personal protection

8.1. Control parameters

Biological limit values : No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls : Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials

8.2. Exposure controls

Occupational exposure limits

US. ACGIH Threshold Limit Values



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Material	Type	Value
Methylcoba lamin (CAS 13422-55-4)	TWA	0.02 mg/m ³

Biological limit values

US. ACGIH. BEIs. Biological Exposure Indices

Material	Value	Determinant
Methylcoba lamin (CAS 13422-55-4)	1 µg/L	Cobalt

8.3 Individual protection measures, such as personal protective equipment

Eye/face protection : Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Skin protection

Hand protection : Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic non latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

Other : For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.

Respiratory protection : Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).

Thermal hazards : Not available.

General hygiene considerations : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Dark red crystals or crystalline powder.
Odour	: No data available
pH	: Not available.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: > 374 °F (> 190 °C) (decomposes)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available



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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Sparingly soluble in water ,slightly soluble in ethanol(99.5),and practically in soluble in acetone.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Other information	
Molecular formula	: C63H91CoN13O14P
Molecular weight	: 1344.38

9.2. Other information

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
LD50 oral rat	: > 5000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified



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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: To our knowledge, the product does not present any particular risk, under normal conditions of use.

SECTION 12: Ecological information

12.1. Toxicity

Presents no specific risk for the environment. No toxicity data noted for the ingredient(s).

12.2. Persistence and degradability

Not available.

12.2. Persistence and degradability

Not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13 Disposal consideration

13.1. Disposal instructions

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of waste in accordance with all applicable Federal, State, and local laws.

13.2. Local disposal regulations

Not available.

13.3. Hazardous waste code

Not available.

13.4. Waste from residues / unused products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions)

13.5. Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is emptied.



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SECTION 14 Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

CERCLA/SARA Hazardous Substances - Not applicable.

No REACH Annex XVII restrictions

Not regulated. By other regulations

15.2. Chemical safety assessment

No additional information available

SECTION 16 Other information

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Further information : Not available.

Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product