# SINORIGHT INTERNATIONAL TRADE CO.,LTD

RM106 TAIHUA BUILDING B AREA FREE TAX ZONE DALIAN CHINA TEL:0086-411-39210844 FAX:0086-411-39210855 Email: info@sinoright.net

Safety data sheet \_\_\_\_ according to 1907/2006/EC, Article 31

Page 1/3 Printing date 15.02.2017 Revision: 14.02.2017

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

1.1 Product identifier

Trade name Vitamin B12

Stock number: A14894, L08077 CAS Number:

**EC number:** 200-680-0

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

Identified use: SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Sinoright International Trade Co Ltd

1417 LIANGJIU BLDG,NO.5 HEY ISTREET X IGANG DIST,DALIAN,CHINA

Tel: +86 411 86571855 M.P.: +86 18098855455 Email: sales02@sinoright.net Web: www.sinorightcn.com

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to the CLP regulation. Other hazards that do not result in classification No information known.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable 2.3 Other hazards Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: 68-19-9 Cyanocobalamine Concentration: ≤100% Identification number(s): EC number: 200-680-0

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

After skin contact Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

# SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)
Phosphorus oxides
Cobalt oxides

.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus.

Wear full protective suit.

# SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.
6.3 Methods and material for containment and cleaning up: Collect mechanically.

Provention of secondary bearands. No special measures required.

Prevention of secondary hazards: No special measures required. 6.4 Reference to other sections

See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

### SECTION 7: Handling and storage

# **7.1 Precautions for safe handling** Handle under dry protective gas.

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31

Page 2/3 Printing date 15.02.2017 Revision: 14.02.2017

(Contd. of page 1)

### Trade name *Vitamin B12*

Keep containers tightly sealed. Information about protection against explosions and fires: No information known.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers: Refrigerate

Protect from heat.
Store away from oxidising agents.
Further information about storage facility:
Protect from heat.
Store away from oxidising agents.
Further information about storage conditions:

This product is hygroscopic.
Keep container tightly sealed.
Protect from humidity and keep away from water.

Refrigerate
7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: No data

8.2 Exposure controls

Personal protective equipment General protective and hygienic measures

General protective and nyglenic measures
The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use breathing protection with high concentrations.
Protection of hands:
Check protective gloves prior to each use for their proper condition.

Check protection of rands:
Check protective gloves prior to each use for their proper condition.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Material of gloves Impervious gloves
Eye protection: Safety glasses
Body protection: Protective work clothing.

#### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information

Appearance:
Form:
Odour:
Odour threshold: Crystalline powder Not determined Not determined pH-value: Not applicable.

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start:
Inflammability (solid, gaseous) Not determined Not determined Not determined Not determined Ignition temperature:
Decomposition temperature:
Self-inflammability: Not determined Not determined Not determined

Danger of explosion: Critical values for explosion: Not determined. Lower: Not determined Upper: Steam pressure: Not determined Not applicable. Not determined Relative density Vapour density Not determined. Not applicable. Not applicable.

Evaporation rate Solubility in / Miscibility with

Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity

dynamic: kínematic

Not applicable. Not applicable. No further relevant information available. 9.2 Other information

### SECTION 10: Stability and reactivity

10.1 Reactivity No information known.
10.2 Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions Reacts with strong oxidising agents

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Oxidising agents

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Phosphorus oxides (e.g. P2O5)

Cobalt oxides

# SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

Acute toxicity: The Registry of Toxic Effects of Chemical Subs LD/LC50 values that are relevant for classification: No data

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Page 3/3 Printing date 15.02.2017 Revision: 14.02.2017

(Contd. of page 2)

### Trade name *Vitamin B12*

Skin irritation or corrosion: May cause irritation

Skin irritation or corrosion: May cause irritation
Eye irritation or corrosion: May cause irritation
Sensitization: No sensitizing effect known.
Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.
Specific target organ system toxicity - repeated exposure: No effects known.
Specific target organ system toxicity - single exposure: No effects known.
Aspiration hazard: No effects known.
Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

#### SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Additional ecological information:
General notes:

General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recommendation

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Consult state, local or national regulations for proper disposal.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

#### SECTION 14: Transport information **UN-Number**

ADR, ADN, IMDG, IATA	Not applicable
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class Not applicable

Packing group ADR, IMDG, IATA Not applicable 14.5 Environmental hazards: Not applicable. Not applicable 14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC

Code Not applicable

**UN "Model Regulation":** 

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical Substances Substance is listed.

Standard for the Uniform Scheduling of Medicines and Poisons Substance is not listed.

National regulations Information about limitation of use: For use only by technically qualified individuals.

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

Although this chemical may sometimes be used as a food or drug or cosmetic, our products are not approved or suitable for such use or for human consumption.

ELINCS (European List of Notified Chemical Substances) Substance is not listed.

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on

the market and use must be observed. Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

VPVB: very Persistent and very Bioaccumulative

ACGIH: American Conference of Governmental Industrial Hygienists (USA)

OSHA: Occupational Safety and Health Administration (USA)

NTP: National Toxicology Program (USA)

IARC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA)

DF