# SIGMA-ALDRICH

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**SAFETY DATA SHEET** 

Version 5.4 Revision Date 07/03/2014 Print Date 10/20/2018

	RODUCT AND COMPANY	IDENTIFICATION				
.1	Product identifiers Product name	<sup>:</sup> Methylcobal	amin			
	Product Number Brand	: M9756 : Sigma				
	CAS-No.	: 13422-55-4				
.2	2 Relevant identified uses of the substance or mixture and uses advised against					
	Identified uses	: Laboratory chem	icals, Manufacture of substanc	ces		
.3	Details of the supplier of the safety data sheet					
	Company	: Sigma-Aldrich 3050 Spruce Stre SAINT LOUIS M USA				
	Telephone Fax	: +1 800-325-5832 : +1 800-325-5052				
.4	Emergency telephone number					
	Emergency Phone #	: +1-703-527-3887	(CHEMTREC)			
2. HA	AZARDS IDENTIFICATION	N				
2.1	Classification of the su	bstance or mixture				
	Not a hazardous substance or mixture.					
2.2	GHS Label elements, including precautionary statements					
	Not a hazardous substan	nce or mixture.				
2.3	Hazards not otherwise	classified (HNOC) or no	ot covered by GHS - none			
B. CO	OMPOSITION/INFORMATI					
3.1	Substances Formula Molecular Weight CAS-No. EC-No.	: C <sub>63</sub> H <sub>91</sub> CoN <sub>13</sub> O : 1,344.38 g/mol : 13422-55-4 : 236-535-3	14 <sup>P</sup>			
	Hazardous components					
	Component		Classification	Concentration		
	Methylcobalamin					
				-		

# 4.1 Description of first aid measures

# General advice

Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

# In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3** Indication of any immediate medical attention and special treatment needed no data available

### **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2** Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus, Cobalt/cobalt oxides

# 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

# 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# 7. HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
- **7.2** Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

**7.3** Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

## Appropriate engineering controls

General industrial hygiene practice.

### Personal protective equipment

# Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available
o)	Partition coefficient: n- octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available

- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available

# 9.2 Other safety information no data available

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

#### 10.1 Reactivity

no data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** no data available
- **10.4 Conditions to avoid** no data available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

# **11. TOXICOLOGICAL INFORMATION**

#### **11.1** Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - > 5,000 mg/kg

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

#### **Respiratory or skin sensitisation** no data available

Germ cell mutagenicity no data available

#### Carcinogenicity

- IARC: 2B Group 2B: Possibly carcinogenic to humans (Methylcobalamin)
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

no data available

no data available

# Specific target organ toxicity - single exposure no data available

# Specific target organ toxicity - repeated exposure no data available

### **Aspiration hazard**

# **Additional Information**

RTECS: GG3745000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity no data available

- 12.2 Persistence and degradability
- **12.3 Bioaccumulative potential** no data available
- **12.4** Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

# **13. DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

#### DOT (US)

Not dangerous goods

# IMDG

Not dangerous goods

## IATA

Not dangerous goods

# **15. REGULATORY INFORMATION**

## SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Chronic Health Hazard

#### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

Sigma - M9756

CAS-No. Revision Date
Methylcobalamin 13422-55-4 2007-03-01
New Jersey Right To Know Components
CAS-No. Revision Date
Methylcobalamin 13422-55-4 2007-03-01

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

#### HMIS Rating

0 *
0
0
0
0

#### Further information

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#### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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