# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.1 Revision Date 06/18/2009 Print Date 10/10/2012

RODUCT AND COMPA	NY IDENTIFICATION					
Product name	: α-Cobrate	oxin from <i>Naja naja kaout</i>	thia			
Product Number	: C6903					
Brand	: Sigma					
Company	: Sigma-Aldr					
	3050 Spruc SAINT I OL	e Street JIS MO 63103				
	USA					
Telephone	: +1 800-325					
Fax Emergency Phone #	: +1 800-325 : (314) 776-6					
	. (0.1) // 0.0					
OMPOSITION/INFORM	ATION ON INGREDI	ENTS				
Synonyms	: Cobratoxin					
	Snake toxinfrom Naja naja kaouthia					
CAS-No.	EC-No.	1. I. NI.	Concentration	7		
0/10/110.	EC-INU.	Index-No.	Concentration			
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# 4. FIRST AID MEASURES

#### 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.

# 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point no data available

Ignition temperature no data available **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions

Avoid dust formation.

# **Environmental precautions**

Do not let product enter drains.

#### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### **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).

#### Hand protection

For prolonged or repeated contact use protective gloves.

#### Eye protection Safety glasses

**Hygiene measures** General industrial hygiene practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form

#### Safety data

•	
рН	no data available
Melting point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

solid

# **10. STABILITY AND REACTIVITY**

#### Storage stability

Stable under recommended storage conditions.

#### Materials to avoid

Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

#### **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

no data available

#### Irritation and corrosion

no data available

#### Sensitisation

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

#### Chronic exposure

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as
	probable, possible or confirmed human carcinogen by IARC.

- 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.

#### Signs and Symptoms of Exposure

The initial fall in systemic blood pressure produced by cobra venom can be attributed either to peripheral vasodilation, accentuated by constriction of the hepatic veins, especially in dogs, or to a pronounced pulmonary vasoconstriction, especially in cats. A direct action on the heart by cardiotoxin is considered to be a contributory factor. \*

#### **Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

#### Additional Information RTECS: QQ4498020

RTEC3. QQ4498020

# **12. ECOLOGICAL INFORMATION**

#### Elimination information (persistence and degradability)

no data available

#### **Ecotoxicity effects**

no data available

#### Further information on ecology

no data available

# **13. DISPOSAL CONSIDERATIONS**

#### Product

Observe all federal, state, and local environmental regulations.

# Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

**DOT (US)** Not dangerous goods

IMDG Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

# **15. REGULATORY INFORMATION**

#### OSHA Hazards

No known OSHA hazards

#### **DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

CAS-No.

alpha -Cobratoxin from Naja naja kaouthia

#### 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

No SARA Hazards

#### Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components		Revision Date
alpha -Cobratoxin from Naja naja kaouthia	CAS-No. -	Revision Date
New Jersey Right To Know Components		
alpha -Cobratoxin from Naja naja kaouthia	CAS-No. -	Revision Date

#### California Prop. 65 Components

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

### **16. OTHER INFORMATION**

#### **Further information**

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