

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

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

#### 1.1 Product identifiers

Product name : Cobalt solution
Product Number : C140767
Brand : aladdin
CAS-No. : 7440-48-4

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION

Address : 14078 Meridian Parkway,

Riverside, CA. 92518

Telephone : +1 (833) 552-7181 Fax : no data available

# 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300

CHEMTREC®, Outside the USA :

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

# 2.2 GHS Label elements, including precautionary statements

**Pictogram** 





Signal word

Hazard statement(s)

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H341 Suspected of causing genetic defects

H350 May cause cancer H360F May damage fertility

H413 May cause long lasting harmful effects to aquatic life



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P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P284 [In case of inadequate ventilation] Wear respiratory protection.

P321 Specific treatment (see ... on this label).
P302+P352 IF ON SKIN: wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

P203 Obtain, read and follow all safety instructions before use.

P318 if exposed or concerned, get medical advice.

P342+P316 If experiencing respiratory symptoms: Get emergence medical help immediately.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Synonyms : no data available

Formula : Co

Molecular weight : 58.93

CAS No. : 7440-48-4

EC-NO. : 231-158-0

Component	Classification	Concentration
<b>Cobalt solution</b>		
	no data available	analytical
		standard,
		85.0µg/L,in 1%
		HNO3

### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General advice

no data available



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#### If inhaled

no data available

In case of skin contact

no data available

In case of eye contact

no data available

If swallowed

no data available

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

no data available

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

no data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media

no data available

# 5.2 Special hazards arising from the substance or mixture

no data available

# 5.3 Advice for firefighters

no data available

### 5.4 Further information

no data available

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

It is recommended that emergency responders wear air-carrying respirators, anti-static clothing, and rubber oil-resistant gloves. Do not touch or step over spillage. All equipment used during work should be grounded. Cut off sources of leaks as much as possible. Eliminate all ignition sources. The warning area is delineated according to the influence area of liquid flow, vapor or dust diffusion, and unrelated personnel are evacuated to the safe area from the crosswind and upwind directions.

# 6.2 Environmental precautions

no data available

# 6.3 Methods and materials for containment and cleaning up



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Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

No data available

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. Sensitive to air. Inflation handling and storage

# 7.3 Specific end use(s)

no data available

### SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

# 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

no data available

#### **Skin protection**

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

### **Body Protection**

no data available

# Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

no data available



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# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a) Appearance form: piece color: light gray

b) Odour no data available c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing point 1,493 - 1,495 °C (2,719 - 2,723 °F)

f) Initial boiling point and boiling range 2,900 °C (5,252 °F) - lit.

g) Flash point not applicable
h) Evaporation rate no data available
i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive

limitsno data availablek) Vapour pressureno data availablel) Vapour densityno data available

m) Relative density 8.9 g/mL at  $25 \,^{\circ}\text{C}$  (77  $^{\circ}\text{F}$ )

n) Water solubility no data available

o) Partition coefficient: n-octanol/water log Pow: 5

p) Auto-ignition temperature no data available q) Decomposition temperature no data available r) Viscosity no data available s) Explosive properties N no data available t) Oxidizing properties N no data available

# 9.2 Other safety information

no data available

# **SECTION 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



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no data available

# 10.6 Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### Acute toxicity

no data available

#### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

May cause eye irritation.

### Respiratory or skin sensitisation

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

This product is or contains components classified as carcinogens by IARC, ACGIH, EPA, and NTP 2B-Group 2B:

Possibly carcinogenic to humans (Cobalt) 2A-Group 2A: Possibly carcinogenic to humans (Cobalt) 2B-Group 2A:

Possibly carcinogenic to humans (Cobalt) 2B Group 2B: Possibly carcinogenic to humans (Cobalt) 8 102B - Group 2B:

Possibly carcinogenic to humans (Cobalt) 2A - Group 2A: Possibly carcinogenic to humans (Cobalt) 2B - Group 2B:

Possibly carcinogenic to humans (Cobalt))

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### **Aspiration hazard**

no data available

### **Additional Information**

no data available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

LC50 for fish - Danio rerio (zebrafish) - 100.01 mg/l- 96 h

# 12.2 Persistence and degradability

No data available



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# 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

no data available

# 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

### **SECTION 13:**

# 13.1 Disposal considerations

#### **Product**

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

### **Contaminated packaging**

Dispose of as unused product.

# **SECTION 14: Transport information**

DOT (US)

UN number: 3089 Packing group: II Class: 4.1

Proper shipping name: METAL Reportable Quantity(RQ): no data Poison Inhalation Hazard: No

POWDER, FLAMMABLE, N.O.S. available

Environmental Hazards: No

**IMDG** 

UN number: 3089 Packing group: II EMS-No: No

Proper shipping name: METAL POWDER, FLAMMABLE, N.O.S.

IATA

UN number: 3089 Packing group: II Class: 4.1

Proper shipping name: METAL POWDER, FLAMMABLE, N.O.S.

# **SECTION 15: Regulatory information**

no data available

### **SECTION 16: Other information**



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Prepared By Regulatory Affairs

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