

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-21

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

1.1 Product identifiers

Product name : (Al, As, Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Mg, Mn, Ni, Sb, Sn, Ti, V, Zn, Zr) multi-element mixed standard solution (mixed standard)
Product Number : S117466
Brand : aladdin
CAS-No. : no data available

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 : no data available
Signal word : no data available
Hazard statement(s)
Precautionary statement(s)

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

SECTION 3: Composition/information on ingredients

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

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3.2 Mixtures

Synonyms	: no data available
Formula	: no data available
Molecular weight	: no data available

Component	Classification	Concentration
Aluminum		
CAS-No. : 7429-90-5		
EC-No. :		
Arsenic solution		
CAS-No. : 7440-38-2		
EC-No. : 231-148-6		
Beryllium solution		
CAS-No. : 7440-41-7	Flammable solid, category 2 Acute toxicity - Oral, Category 3* Acute toxicity - inhalation, category 2* Skin corrosion/irritation, category 2 Severe eye injury/irritation, category 2 Skin allergens, category 1 Carcinogenicity, Class 1A Specific target organ toxicity - single exposure, category 3 (respiratory irritation) Specific target organ toxicity - repeated exposure, category 1	
EC-No. :		
Bismuth		
CAS-No. : 7440-69-9		
EC-No. : 231-177-4		
Cadmium solution		
CAS-No. : 7440-43-9	Acute toxicity category 2; germ cell mutagenicity category 2; carcinogenicity category 1A; reproductive toxicity category 2; specific target organ toxicity (repeated exposure) category 1; acute (short-term) aquatic hazard category 1; long-term aquatic hazard category 1 ; H330, H341, H350, H361, H372, H400, H410 M-factor- Aquatic Acute: 1,000	
EC-No. : 231-152-8		
Carbon monoxide		
CAS-No. : 630-08-0	Flammable Gas Category 1; Acute Toxicity Category 3; Reproductive Toxicity Category 1A; Specific Target Organ Toxicity (Repeated Exposure) Category 1; H220, H331, H360, H372	
EC-No. : 211-128-3		
Chromium		
CAS-No. : 7440-47-3		
EC-No. : 231-157-5		

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Component	Classification	Concentration
Copper		
CAS-No. : 7440-50-8	Flammable solids Category 1; Acute (short-term) aquatic hazards	
EC-No. : 231-159-6	Category 1; Long-term aquatic hazards Category 1; H228, H400, H410 M-factor-Aquatic Acute: 10 M-factor-Aquatic Chronic: 100	
Iron solution		
CAS-No. : 7439-89-6		
EC-No. : 231-096-4		
Mangesium		
CAS-No. : 7439-95-4	Flammable solids Category 1; Self-heating substances and mixtures	
EC-No. : 231-104-6	Category 1; Substances and mixtures that emit flammable gases in contact with water Category 2; H228, H251, H261	
Manganese		
CAS-No. : 7439-96-5	Substances and mixtures that emit flammable gases in contact with	
EC-No. : 231-105-1	water Category 1; Acute (short-term) aquatic hazards Category 2; Long-term aquatic hazards Category 2; H260, H401, H411	
Raney&reg;-Nickel		
CAS-No. : 7440-02-0	Oxidative solid category 2; acute toxicity Category 4; Skin irritation	
EC-No. :	category 2; serious Eye injury category 1; Respiratory allergies Don't 1; Skin allergy category 1; Reproductive fine Cytogenic mutagenicity category 2; Carcinogenic class Don't 1A; Reproductive toxicity Category 1B; special Heterologous target organ systemic toxicity (repeated exposure Touch Category 1; Acute (short-term) water Hazard category 1; Long term aquatic hazards Category 1; H272, H302, H332, H315, H318, H334, H317, H341, H350i, H360, H372, H400, H410	
Antimony		
CAS-No. : 7440-36-0	Specific target organ toxicity (repeated exposure) Category 2; H373	
EC-No. : 231-146-5		
Tin standard		
CAS-No. : 7440-31-5		
EC-No. :		
Vanadium		
CAS-No. : 7440-62-2		
EC-No. : 231-171-1		

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Component	Classification	Concentration
Zinc standard		
CAS-No. :	7440-66-6	
EC-No. :		
Zirconium		
CAS-No. :	7440-67-7	
EC-No. :		
Titanium		
CAS-No. :	7440-32-6	Flammable solid category 1; Spontaneous combustion solid Don't 1;
EC-No. :	H228, H250	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

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. Consult a physician.

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

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

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

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

Face shield and safety glasses 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. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) 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

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	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) Evaporation 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
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available

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- 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 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

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

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Carcinogenicity

no data available

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

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

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.

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SECTION 14: Transport information

DOT (US)

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: Not dangerous goods

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: no

IMDG

UN number: no data available

Packing group: no data available

EMS-No: no data available

Proper shipping name: Not dangerous goods

IATA

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: Not dangerous goods

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

Email: QualityAssurance@aladdinsci.com

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Revision Summary

SDS sections updated v1

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