

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-25

Print Date: 2024-02-01

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

#### 1.1 Product identifiers

Product name : Hexafluorozirconic acid solution

Product Number : H113658

Brand : aladdin

CAS-No. : 12021-95-3

### 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 Da

Hazard statement(s)

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN

with water [or shower].



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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.

P405 Store locked up.

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

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

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

#### 3.1 Substances

Synonyms : Dihydrogen hexafluorozirconate solution

Formula : H2ZrF6

Molecular weight : 207.23

CAS No. : 12021-95-3

EC-NO. : no data available

Component Classification Concentration

Hexafluorozirconic acid solution

no data available 45 wt. % in H2O

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

#### 4.1 Description of first aid measures

General advice

no data available

If inhaled

remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of skin contact

flush with copious amounts of water for at least 15 minutes.Remove contaminated clothing and shoes.Call a physician.

In case of eye contact

flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

If swallowed

wash out mouth with water provided person is conscious. Call a physician. Do not induce vomiting.

### 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



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#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

Emits toxic fumes under fire conditions.

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 5.4 Further information

no data available

#### SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

## 6.2 Environmental precautions

no data available

### 6.3 Methods and materials for containment and cleaning up

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

#### 6.4 Reference to other sections

no data available

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

### 7.2 Conditions for safe storage, including any incompatibilities

no data available

#### 7.3 Specific end use(s)

no data available



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

# 8.1 Control parameters

### 8.2 Exposure controls

Appropriate engineering controls

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

Personal protective equipment

Eye/face protection

Chemical safety goggles.

Skin protection

Compatible chemical-resistant gloves.

**Body Protection** 

no data available

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face 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.

Control of environmental exposure

no data available

# SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance form: liquid color: light green

b) Odour Tasteless

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 1.512

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



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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

no data available

# 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

Strong oxidizing agents, Acids.

# 10.6 Hazardous decomposition products

Hazardous Decomposition Products: Hydrogen fluoride, Zirconium oxides.

# **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

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available



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Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be

harmful if inhaled.

Additional Information

no data available

# **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

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. Observe all federal, state, and local environmental regulations.

Contaminated packaging

no data available

# **SECTION 14: Transport information**

DOT (US)



#### 14078 Meridian Parkway, Riverside, CA. 92518

UN number: 3264 Packing group: 8 Class: II

Proper shipping name: Corrosive liquid, Reportable Quantity(RQ): no data

Poison Inhalation Hazard: no data

acidic, inorganic, n.o.s. available available

Environmental Hazards: no data available

**IMDG** 

UN number: 3264 Packing group: 8 EMS-No: no data available

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s.

IATA

UN number: 3264 Packing group: 8 Class: II

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s.

# **SECTION 15: Regulatory information**

no data available

## **SECTION 16: Other information**

Regulatory Affairs

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