Shanghai Aladdin Biochemical Technology Co., Ltd. No. 809, Chuhua Branch Road, Fengxian District, Shanghai

## SAFETY DATA SHEET

Version: v1 Revision Date: 2023-11-25 Print Date: 2023-12-03

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

## 1.1 Product identifiers

Product name	: Gadolinium standard
Product Number	: G117326
Brand	: aladdin
CAS-No.	: 7440-54-2(HNO3)

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

: 仅供科研用途,不作为药物、家庭备用药或其它用途。

Identified uses

## 1.3 Details of the supplier of the safety data sheet

: Shanghai Aladdin Biochemical Tech Co.,Ltd
: 36 Xinjinqiao Road, Shanghai
: 400-620-6333
: no data available

## 1.4 Emergency telephone number

Emergency Phone	: 0532-83889090
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## **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	Warning
Hazard statement(s)	
H261	In contact with water releases flammable gas
Precautionary statement(s)	
P231+P232	Handle under inert gas/ Protect from moisture.
P422	Store contents under

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

## SECTION 3: Composition/information on ingredients

## 3.2 Mixtures

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

#### Component

Classification

Concentration

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

General advice

Consult a physician.Show this safety data sheet to the doctor in attendance.Move out of dangerous area. 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 Dry powder Carbon dioxide (CO2) Unsuitable extinguishing media no data available

## 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- gadolinium oxides

## 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

no data available

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

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.Avoid breathing vapors, mist or gas.Ensure adequate ventilation.Evacuate personnel to safe <br/><br/>areas.<br/>

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.

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

Sweep up and shovel.Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-<br/>brushing and place in container for disposal according to local regulations (see section 13).Do not flush with water.<br/>br/>Keep in suitab

#### 6.4 Reference to other sections

no data available

#### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No <br/>smoking.<br/>

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.<br/>Never allow product to get in contact with water during storage.<br/>Air and moisture sensitive.<br/>Aldrich - 263087 Page 3 of 7 <br/>

#### 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 <br/>sor/>workday.<br/>

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under <br/>spropriate government standards such as NIOSH (US) or EN 166(EU).<br/>br/>

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

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touching <br/>splove's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in <br/>sh/>accordance with applicable laws and good laboratory practices.Wash and dry hands.<br/><br/>lmmersion protection <br/>Material: Nitrile rubber <br/>Material: Nitrile rubber <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Splash protection <br/>Splash protection <br/>Material: Nitrile rubber <br/>Splash protection <br/>Splash protection <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Material: Nitrile rubber <br/>Splash protection <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Naterial: Nitrile rubber <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Naterial: Nitrile rubber <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Naterial: Nitrile rubber <br/>Naterial: Nitrile rubber <br/>Naterial: Nitrile rubber <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Naterial: Nitrile rubber <br/>Naterial: Nitrile rubber <br/>Naterial: Nitrile rubber <br/>Splash protection <br/>Naterial: Nitrile rubber <br/>Nateri

#### **Body Protection**

Flame retardant protective clothing, The type of protective equipment must be selected according to the <br/>concentration and amount of the dangerous substance at the specific workplace.<br/> Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 <br/>br/>(US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole <br/>br/>means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved <br/>br/>under appropriate government standards such as NIOSH (US) or CEN (EU).<br/>br/>Control of environmental exposure

no data available

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

a) Appearance b) Odour c) Odour Threshold d) pH	no data available no data available no data available no data available
d) pH e) Melting point/freezing point	1313°C
f) Initial boiling point and boiling range	3273°C
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
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available

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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

Stable under recommended storage conditions.

#### 10.2 Chemical stability

<br/>
>Reacts violently with water.

10.3 Possibility of hazardous reactions no data available

#### 10.4 Conditions to avoid

Oxygen, Strong acids, Strong oxidizing agents

#### 10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- gadolinium oxides <br/>Other decomposition products - no data available <br/>

#### 10.6 Hazardous decomposition products

Oral LD50 <br/>br/>no data available <br/>lnhalation LC50 <br/>br/>no data available <br/>Dermal LD50 <br/>br/>no data available <br/>

#### **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
Carcinogenicity - mouse - Implant  Tumorigenic:Equivocal tumorigenic agent by RTECS
criteria.Tumorigenic:Tumors at site or application. hr/>IARC: No component of this product present at levels

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greater than or equal to 0.1% is identified as <br/>probable, possible or confirmed human carcinogen by IARC.<br/><br/>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a<br/><br/>carcinogen or potential carcinogen by ACGIH.<br/>NTP: No component of this product present at levels<br/>greater than or equal to 0.1% is identified as a <br/><br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>component of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent of this product present at levels greater than or equal to 0.1% is identified as a <br/>socomponent present at levels greater than or equal to 0.1% is identified as a <br/>socomponent present at levels greater than or equal to 0.1% is identified as a <br/>socomponent present at levels greater than or equal to 0.1% is identified as a <br/>socomponent present at levels greater than or equal to 0.1% is identified as a <br/>socomponent present at levels greater than or equal to 0.1% is identified as a <br/>socomponent present at levels greater than or equal to 0.1% is identified as a <br/>socomponent present at levels greater than or equ

Carcinogenicity no data available <br/><br/>keproductive toxicity no data available <br/><br/>Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available <br/>Additional Information

no data available

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

no data available

## 12.2 Persistence and degradability

no data available <br/>

#### 12.3 Bioaccumulative potential

no data available <br/>

## 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

no data available <br/><br/>

## 12.6 Other adverse effects

no data available

## SECTION 13:

## 13.1 Disposal considerations

Product

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> no data available Contaminated packaging no data available

## **SECTION 14: Transport information**

DOT (US)			
UN number: 3208	Packing group: III	Class: 4.3	
Proper shipping name: METALLIC	Reportable Quantity(RQ): no data	Poison Inhalation Hazard: No	
SUBSTANCE, WATER-REACTIVE, N.O.S.	available		
(Gadolinium)			
Environmental Hazards: No			
IMDG			
UN number: 3208	Packing group: III	EMS-No: No	
Proper shipping name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Gadolinium)			
ΙΑΤΑ			
UN number: 3208	Packing group: III	Class: 4.3	
Proper shipping name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Gadolinium)			

## **SECTION 15: Regulatory information**

no data available

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

#### Further information

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