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# **GADOLINIUM** METAL FOIL CAS NO 7440-54-2

# **MATERIAL SAFETY DATA SHEET** SDS/MSDS

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

1.1	Product identifiers Product name	:	Gadolinium Metal Foil		
	CAS-No.	:	7440-54-2		
1.2	2 Relevant identified uses of the substance or mixture and uses advised against				
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.		
1.3	3 Details of the supplier of the safety data sheet				
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA		
	Telephone Email	:	+91 11 49404040 <u>care@cdhfinechemical.com</u>		
1.4	Emergency telephone number				

#### Emergency telephone number 1.4

: +91 11 49404040 (9:00am - 6:00 pm) [Office hours] Emergency Phone #

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 Substances, which in contact with water, emit flammable gases (Category 3), H261

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

## Labelling according Regulation (EC) No 1272/2008

Pictogram

	GH502
Signal word	Warning
Hazard statement(s) H261	In contact with water releases flammable gases.
Precautionary statement(s) P231 + P232 P422	Handle under inert gas. Protect from moisture. Store contents under inert gas.
Supplemental Hazard Statements	none

2.3 Other hazards - none

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

## 3.1 Substances

Formula	:	Gd
Molecular weight	:	157.25 g/mol
CAS-No.	:	7440-54-2
EC-No.	:	231-162-2

No components need to be disclosed according to the applicable regulations.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **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.

#### 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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**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 Water

- 5.2 Special hazards arising from the substance or mixture gadolinium oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

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

6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

## **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.\'20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. 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

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

For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage.

#### Air and moisture sensitive.

Storage class (TRGS 510): Solid substances which give off flammable gases in contact with water

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **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

Safety glasses with side-shields conforming to EN166 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.

#### **Body Protection**

Flame retardant 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 (EN 143) respirator cartridges as a backup to engineering controls. If th 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**

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

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

## 9.1 Information on basic physical and chemical properties

- a) Appearance Form: Foil Colour: light grey
- b) Odour No data available

c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 1,313 °C
f)	Initial boiling point and boiling range	3,273 °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
I)	Vapour density	No data available
m)	Relative density	7.886 g/mL at 25 °C
n)	Water solubility	insoluble
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	No data available
t)	Oxidizing properties	No data available
	<b>her safety information</b> data available	

# SECTION 10: Stability and reactivity

**10.1 Reactivity** No data available

9.2

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** Reacts violently with water.
- **10.4** Conditions to avoid Exposure to moisture
- **10.5** Incompatible materials Oxygen, Strong acids, Strong oxidizing agents
- Hazardous decomposition products
   Hazardous decomposition products formed under fire conditions. gadolinium oxides
   Other decomposition products No data available
   In the event of fire: see section 5

## **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
  - Acute toxicity No data availableGadolinium

#### Skin corrosion/irritation

No data available(Gadolinium)

Serious eye damage/eye irritation

No data available(Gadolinium)

Respiratory or skin sensitisation

No data available(Gadolinium)

## Germ cell mutagenicity

No data available(Gadolinium)

#### Carcinogenicity

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.

## Reproductive toxicity

No data available(Gadolinium)

**Specific target organ toxicity - single exposure** No data available(Gadolinium)

Specific target organ toxicity - repeated exposure No data available

# Aspiration hazard

No data available(Gadolinium)

Additional Information RTECS: Not 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(Gadolinium)
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- 12.6 Other adverse effects No data available

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

## **Contaminated packaging**

Dispose of as unused product.

## **SECTION 14: Transport information**

14.1	<b>UN number</b> ADR/RID: 3208		IMDG: 3208	IATA: 3208
14.2	UN proper shipping nameADR/RID:METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (GadoliniuIMDG:METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (GadoliniuIATA:Metallic substance, water-reactive, n.o.s. (Gadolinium)			
14.3	Transport ADR/RID:	<b>hazard class(es)</b> 4.3	IMDG: 4.3	IATA: 4.3
14.4	Packaging ADR/RID:		IMDG: III	IATA: III
14.5	Environm ADR/RID:	ental hazards no	IMDG Marine pollutant: no	IATA: no
14.6	<b>Special pr</b> No data av	ecautions for user ailable		

## **SECTION 15: Regulatory information**

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

## Full text of H-Statements referred to under sections 2 and 3.

H261 In contact with water releases flammable gases.

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.