

cdhfinechemical.com

**Gadolinium** Atomic Absorption Std. Soln. 1000 mg/per lit AAS in HNO<sub>3</sub>

# MATERIAL SAFETY DATA SHEET SDS/MSDS

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers Product name

: **Gadolinium** Atomic Absorption Std. Soln. 1000 mg/per lit AAS in HNO<sub>3</sub>

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

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

Company : Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA Telephone : +91 11 49404040

Email : <u>care@cdhfinechemical.com</u>

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

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Corrosive to metals (Category 1) Skin irritation (Category 2) Eye irritation (Category 2)

Classification according to EU Directives 67/548/EEC or 1999/45/EC Irritating to eyes and skin.

### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram



Signal word Hazard statement(s) H290 H315 H319 Precautionary statement(s) P305 + P351 + P338

Supplemental Hazard Statements

Warning

May be corrosive to metals. Causes skin irritation. Causes serious eye irritation.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. none



R-phrase(s)R36/38Irritating to eyes and skin.S-phrase(s)S26In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Component		Classification	Concentration
Nitric acid CAS-No. EC-No. Index-No.	7697-37-2 231-714-2 007-004-00-1	Ox. Liq. 3; Skin Corr. 1A; H272, H314 O, C, R 8 - R35	1 - 5 %

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

#### 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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### 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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3** Indication of any immediate medical attention and special treatment needed no data available

### 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture nitrogen oxides (NOx)

# 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

### 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### 6.2 Environmental precautions

Do not let product enter drains.

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- 7.3 Specific end uses no data available

no data available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components with workplace 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**

Complete suit protecting against chemicals, 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 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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) Appearance Form: clear, liquid Colour: colourless
- b) Odour no data available
- c) Odour Threshold no data available

	d)	рН	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
	I)	Vapour density	no data available
	m)	Relative density	1,00 g/cm3
	n)	Water solubility	no data available
	o)	Partition coefficient: n- octanol/water	no data available
	p)	Autoignition 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
9.2	Other safety information no data available		
10.	ST	ABILITY AND REACTIVIT	Y
10.1	<b>Reactivity</b> 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 no data available		
10.6	Hazardous decomposition products Other decomposition products - no data available		

#### **TOXICOLOGICAL INFORMATION** 11.

#### Information on toxicological effects 11.1

### Acute toxicity no data available

Skin corrosion/irritation no data available

### Serious eye damage/eye irritation

no data available

#### **Respiratory or skin sensitization** no data available

Germ cell mutagenicity

no data available

#### 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

### Specific target organ toxicity - single exposure

no data available

# Specific target organ toxicity - repeated exposure

no data available

#### **Aspiration hazard**

no data available

### Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Additional Information**

RTECS: Not available

#### 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

### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated packaging**

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

14.1	UN numbe ADR/RID: 3	-	IMDG: 3264	IATA: 3264
14.2	UN proper shipping nameADR/RID:CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid)IMDG:CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid)IATA:Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)			
14.3	Transport ADR/RID: 3	hazard class(es) 8	IMDG: 8	IATA: 8
14.4	Packaging ADR/RID:		IMDG: III	IATA: III
14.5	Environmental hazards ADR/RID: no		IMDG Marine pollutant: no	IATA: no
14.6	<b>Special pr</b> no data ava	ecautions for user ailable		

### 15. REGULATORY INFORMATION

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

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- **15.2 Chemical Safety Assessment** no data available

#### 16. OTHER INFORMATION

#### Text of H-code(s) and R-phrase(s) mentioned in Section 3

H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
Ox. Liq.	Oxidizing liquids
Skin Corr.	Skin corrosion
С	Corrosive
R 8	Contact with combustible material may cause fire.
R35	Causes severe burns.
0	Oxidising

### **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.