

# cdhfinechemical.com

# Calcium (Ca)10,000 ppm ICP in HNO<sub>3</sub>

# MATERIAL SAFETY DATA SHEET SDS/MSDS

1.1	Product identifiers Product name	: <b>Calcium (Ca)</b> 10,000 ppm ICP in HNO <sub>3</sub>
1.2	Relevant identified use	s of the substance or mixture and uses advised against
	Identified uses	: Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier Company	of the safety data sheet : Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
	Telephone Email	: +91 11 49404040 : <u>care@cdhfinechemical.com</u>
1.4	Emergency telephone	
	Emergency Phone #	: +91 11 49404040 (9:00am - 6:00 pm) [Office hours]
SEC	Emergency Phone #	
SEC <sup>-</sup> 2.1		ation
	TION 2: Hazards identific Classification of the su Classification accordin Skin corrosion (Category Germ cell mutagenicity ( Carcinogenicity (Category	ation bstance or mixture g to Regulation (EC) No 1272/2008 (1B), H314 Category 2), H341 Ty 1B), H350 xicity - repeated exposure (Category 2), H373

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

# Classification according to EU Directives 67/548/EEC or 1999/45/EC

Т	Toxic	R23
Т	Toxic	R45
С	Corrosive	R34
Xn	Harmful	R48/20/22
Xn	Harmful	R68
Ν	Dangerous for the	R51/53
	environment	

For the full text of the R-phrases mentioned in this Section, see Section 16.

# 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word	
Hazard statement(s) H314 H341 H350 H373 H411	Causes severe skin burns and eye damage. Suspected of causing genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statement(s) P201 P280	Obtain special instructions before use. Wear protective gloves/ protective clothing/ eye protection/ face
P303 + P361 + P53	protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing.
P304 + P340 + P310	Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for
P305 + P351 + P338	breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove
P308 + P313	contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	IF exposed or concerned: Get medical advice/ attention. none

Restricted to professional users.

# According to European Directive 67/548/EEC as amended.

Hazard symbol(s)	Acuta ree	Hanakhan ville Italy uqual converse
	Ν	Dangerous for the environment

R-phrase(s)	
R45	May cause cancer.
R23	Also toxic by inhalation.
R48/20/22	Also harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R34	Causes burns.
R68	Possible risk of irreversible effects.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	
S53	Avoid exposure - obtain special instructions before use.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S26 S36/37/39	In case of contact with eyes, rinse immediately with plenty of water and
	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Restricted to professional users.

# 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

### 3.2 Mixtures

Hazardous ingredient	s according to Regulation	<b>(EC) No 1272/2008</b> Classification	Concentration
Nitric acid CAS-No. EC-No.	7697-37-2 231-714-2	Ox. Liq. 3; Skin Corr. 1A; H272, H314	>= 5 - < 10 %
Index-No.	007-004-00-1	,	
<b>Cadmium shot</b> Include Regulation (EC) No. 19		Substances of Very High Concern (SVI	HC) according to
CAS-No. EC-No. Index-No.	7440-43-9 231-152-8 048-002-00-0	Acute Tox. 3; Acute Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H301, H330, H341, H350, H361fd, H372, H410	>= 1 - < 2,5 %
	s according to Directive 1		
Component		Classification	Concentration
Nitric acid			
CAS-No. EC-No. Index-No.	7697-37-2 231-714-2 007-004-00-1	O, C, R 8 - R35	>= 5 - < 10 %
			10)

**Cadmium shot** Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

- 3 -		( , ,		
	CAS-No.	7440-43-9	T+, N, Carc.Cat.2, Repr.Cat.3,	>= 1 - < 2,5 %
	EC-No.	231-152-8	Mut.Cat.3, R45 - R26 -	
	Index-No.	048-002-00-0	R48/23/25 - R62 - R63 - R68 -	
			R50/53	

For the full text of the H-Statements and R-Phrases 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

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. 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

Do NOT induce vomiting. 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

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

5.2 Special hazards arising from the substance or mixture Nitrogen oxides (NOx), Cadmium/cadmium 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 Use personal protective equipment. 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. Discharge into the environment must be avoided.

- **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.

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

### 7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

# 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

# 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

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: 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	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-	No data available

octanol/water

- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- 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

# **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** In the event of fire: see section 5

# **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

# Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Cadmium shot)

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

Liver - Irregularities - Based on Human Evidence (Nitric acid)

### **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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

### **SECTION 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.

### **SECTION 14: Transport information**

14.1	UN numbe ADR/RID: 3	-	IMDG: 3264	IATA: 3264
14.2		CORROSIVE LIQUID,	ACIDIC, INORGANIC, N.O.S. (Nitric ACIDIC, INORGANIC, N.O.S. (Nitric , inorganic, n.o.s. (Nitric acid)	,
14.3	Transport I ADR/RID: 8	hazard class(es) 3	IMDG: 8	IATA: 8
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III
14.5	Environme ADR/RID: r	<b>ntal hazards</b> าo	IMDG Marine pollutant: no	IATA: no
14.6	Special pre	ecautions for user		

# No data available

# SECTION 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

# Authorisations and/or restrictions on use

Cadmium shot CAS-No.: 7440-43-9 REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). Carcinogenic (article 57a)

Cadmium shot CAS-No.: 7440-43-9 REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Shall not be used See Commission Regulation (EU) No 494/2011 for Conditions of restriction

Cadmium shot CAS-No.: 7440-43-9 REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Carcinogens: category 1B Restricted to professional users. See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Cadmium shot CAS-No.: 7440-43-9 Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Exempted (Categories of) Uses: industrial chemical for professional use

# 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.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Muta.	Germ cell mutagenicity
Ox. Liq.	Oxidizing liquids
Repr.	Reproductive toxicity
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion
STOT RE	Specific target organ toxicity - repeated exposure

# Full text of R-phrases referred to under sections 2 and 3

С	Corrosive
R 8	Contact with combustible material may cause fire.
R23	Toxic by inhalation.
R26	Very toxic by inhalation.
Ν	Dangerous for the environment
0	Oxidising
R34	Causes burns.
R35	Causes severe burns.

R45	May cause cancer.
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R48/23/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
T+	Very toxic
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.
R68	Possible risk of irreversible effects.
Repr.Cat.3	Toxic to Reproduction Category 3

# **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.