



Doc. ref. code: 2310003

SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: P13566

IDN No.: 1422800

Product name: Calcium standard solutions (10.000ppm), for ICP, ICP-AES and AAS, Spys

Use of the substance/preparation: Analytical standard

Manufacturer/supplier identification

Company: BDH Laboratory Supplies, Poole, Dorset, BH15 1TD, England
Tel: Sp: +44 (0) 1202 660444, Telefax: +44 (0) 1202 668856

Emergency telephone No.: +44 (0) 1202 669700

2. Composition/information on ingredients

Chemical characterization

Solution in water

Product name: Calcium standard solution (10000 ppm)

CAS number: Not applicable (Mixture) EC No.: Not applicable

Hazardous ingredients:

Name of ingredient	Concentration	EC No.
Calcium	1.5%	
CAS number:	7697-37-2	EC No.: 231-314-2
Other names:	Ca	
R-phrases:	R6-53	
S-phrases:	S23-26-36-45	
Calcium nitrate 4-hydrate	1.5%	
CAS number:	10035-93-4	EC No.: 233-312-1
Other names:	Ca(NO ₃) ₂ ·4H ₂ O	
S-phrases:	R6-56	

3. Hazardous identification

Irritating to eyes and skin.

4. First aid measures

See section 3.

Form: liquid
Colour: colourless
Odour: odourless

Health, safety and environmental information:

Boiling temperature: -100°C
Density (g/ml): -1.0
Solubility in water: Miscible in all proportions
pH value: <2
Flammability: Not combustible.

10. Stability and reactivity

Stable:

Substances to be avoided: metals, bases.

11. Toxicological information

- After inhalation of vapours: May irritate.
- After eye contact: Irritation.
- After ingestion: Irritation of mucous membranes in the mouth, pharynx, oesophagus, and gastrointestinal tract.

Further data

No data

12. Ecological information

Adverse/ecological effects cannot be excluded in the event of improper handling or disposal.

Further ecological data:

The following applies to mixtures in general: may contribute to the eutrophication of water supplies. Hazard for drinking water. Fish LC50 > 500 mg/l.

13. Disposal considerations

Chemical residues are generally classified as special waste and as such are covered by regulations which vary according to the country. Contact your local authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport information

UN-No.: 3264 Class: 8

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION 3%)

15. Regulatory information

Labelling according to EC directives

Symbol: Xi Irritant.

R-phrases: R603R
Irritating to eyes and skin.

S-phrases: S26
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

EC-No.: Not applicable

Local Regulations

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

16. Other information

Revision: 1

Reason for alteration: Changes in Section 2: 2.6, 8.12

Date of issue: 23/10/03

Date of print: 23/10/04

Text of R-phrases listed in section 2

R12: Harmful to the environment
R10: Flammable
R36: Irritating to eyes

- Eye contact: Irrigate thoroughly with water for at least 10 minutes. If discomfort persists, obtain medical attention.
- Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
- Skin contact: Wash off thoroughly with soap and water. Remove contaminated clothing and wash before re-use. In severe cases obtain medical attention.
- Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5. Fire-fighting measures

Special risks:

Not combustible. May evolve toxic fumes in fire. (oxides of nitrogen)

Suitable extinguishing media:

To suit environment.

6. Accidental release measures

Wear appropriate protective clothing.

Absorb on an inert absorbent (e.g. BDH Spillage absorption granules), transfer to a suitable container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages, suitable absorbents should be used to remove the spillage from the ground and both liquids and solids transferred to salvage containers. Any residues should be treated as normal spillages.

7. Handling and storage

Handling:

Change contaminated clothing. Wash hands after working with substance.

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

8. Exposure control/personal protection

UK Exposure Limits:

OES, Nitric acid: Long term: 5.2 mg/m³ (2 ppm) Short term: 10 mg/m³ (4 ppm)

Personal protective equipment:

- Appropriate to the situation and the quantity handled.
- Resistant to the substance and the vapours/aerosols are generated.
- Ventilation: Not applicable
- Gloves: Nitrile.
- Eye protection: Safety goggles or face shield.
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

9. Physical and chemical properties

General information: