# **SCP SCIENCE**

## Material Safety Data Sheet

Date of Issue: 2009-04-21 Revision Date: 2010-03-26

## 1. Identification of Substance/Preparation and Company/Undertaking:

Name of Product: PlasmaCAL calibration standard for ICP-AES & ICP-MS containing 1000 µg/ml

Cd. (Cadmium in 4% nitric acid). Traceable to NIST.

Catalogue No: 140-051-480/481/482/485

Name of Manufacturer: SCP SCIENCE

21 800 Clark-Graham Baie d'Urfé, Québec Canada H9X 4B6 Tel: (514) 457-0701 Fax: (514) 457-4499

Name of Supplier in Europe: In the United States:

SCP SCIENCE, 12 Avenue du Québec

Bâtiment I-2 SILIC 642

91965 Courtaboeuf (Les Ulis)

CEDEX, France

SCP SCIENCE

348 Route 11

Champlain, NY

12919-4816

 Téléphone: 33-01-69-18-71-17
 Tel: (800) 361-6820

 Télécopieur: 33-01-60-92-05-67
 Fax: (800) 253-5549

#### 2. Composition and Information on Ingredients:

Nitric acid: (4%)

CAS No.: 7697-37-2 EU-Index No.: 007-004-00-1

Fatal dose for humans: 5-10 ml conc. HNO<sub>3</sub>

LC<sub>50</sub> (rat-inh): 224 ppm NO<sub>2</sub>/30 min.

EU Symbol: C O R Phrases: 8, 35 Contact with combustible material may

cause fire. Causes severe burns.

Cadmium: (0,1%)

CAS No.: 7440-43-9 EU-Index No.: ---

LD<sub>50</sub>: unknown LC<sub>50</sub>: unknown

EU Symbol: Xn R Phrases: 20/22, 40 Harmful by inhalation and if

swallowed. Possible risk of cancer.

#### 3. Hazards Identification:

Potential Health Effects:

May cause cancer.

Causes eye and skin irritation or burns in contact.

Ingestion: A component of this preparation, cadmium, may cause cancer by inhalation or

ingestion.

#### 4. First Aid Measures:

Inhalation: Remove the victim from exposure.

Contact with skin: Rinse with plenty of water.

Contact with eyes: Rinse with plenty of water for at least 15 minutes, including under the upper

and lower eyelids.

Ingestion: Do not induce vomiting: seek medical advice immediately and show the container or label.

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

## 5. Fire-fighting Measures:

Extinguishing Media:

Appropriate: Usual media appropriate to surrounding fire conditions.

Avoid: ---

Special protective equipment for firefighters: Wear suitable protective clothing, gloves,

and eye/face protection.

#### 6. Accidental Release Measures:

Personal protection: Wear suitable protective clothing, gloves, and eye/face protection.

Environmental precautions: ---

Methods for cleaning up: Dilute with water, spread sodium bircarbonate on the spill. Collect spilled

material in suitable container for proper disposal.

## 7. Handling and Storage:

Have immediate availability of an eyewash in case of emergency. Do not store in metal container.

#### 8. Exposure Controls and Personal Protection:

Preventitive measures:

Respirators: In case of insufficient ventilation, wear suitable respiratory equipment. Use laboratory

fume hood.

Hand/Skin: Wear suitable clothing and gloves.

Eye: Eye-wash station in proximity. Avoid contact with skin and eyes.

Personal hygiene: Wash hands after use.

Other information:

Exposure controls:

Nitric Acid: TLV 2 ppm; 5,2 mg/m<sup>3</sup> (as STEL: 4 ppm, 10 mg/m<sup>3</sup>) (ACGIH 1993-1994)

Cadmium: TLV (as dust): ppm; 0.05 mg/m 3 as TWA (ACGIH 1991-1992).

#### 9. Physical and Chemical Properties:

State: aqueous liquid Colour: colourless Odour: odourless Important health, safety and environmental information:

pH: <1

Boiling Point: c 105 C Flash Point: NA

Flammability (solid/gas): non-inflammable

Explosive properties: NA Vapour pressure: NA Relative density: NA

Solubility in water: miscible (in all proportions)

Solubility in solvent oil:

Partition coefficient: n-octanol/water: NA

Viscoscity: NA Vapour density: NA Evaporation rate: NA

Other information: ---

#### 10. Stability and Reactivity:

Stability: stable at room temperature and conditions of use.

Conditions to avoid: excessive heat. Materials to avoid: reacts with bases.

Hazardous decomposition products: possibility of nitrogen oxides.

Other data: The preparation attacks many metals

## 11. Toxicological Information:

Acute toxicity of preparation: No information about preparation available.

Local effects: The preparation is corrosive. Long-term toxicity: no information available.

#### 12. Ecological Information:

Ecotoxicity: no information about this preparation is available.

Mobility: no information about this preparation is available.

Persistance and degradability: no information about this preparation is available. Bioaccumulative potential: no information about this preparation is available.

#### 13. Disposal Considerations:

Consult local hazardous or chemical waste disposal agency for regulations.

## 14. Transport Information:

IDMG (sea):

UN Number: UN3264

Class: 8

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid 4%)

Packing group: III

Other applicable information:

ADR/DOT (road):

UN Number: UN1760

Class: 8

Proper shipping name: Corrosive liquid, n.o.s. (nitric acid 4%)

Packing group: III

Other applicable information:

ICAO/IATA (air):

UN Number: UN3264

Class: 8

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid 4%)

Packing group: III

Other applicable information:

#### 15. Regulatory Information:

A component of this preparation is listed in the National Toxicology Program ARC (9<sup>th</sup> Report on carcinogens) as a known human carcinogen: cadmium

A component of this preparation appears in the list (June 28, 2002) of chemicals know to the state to cause cancer (California Proposition 65): cadmium

EU labelling in accordance with EC Directives:

Symbol: Xn Harmful

R-Phrases: 36/38, 40 Irritating to eyes and skin. May cause cancer.

S-Phrases: 53, 26, 36/37/39, 45 Avoid exposure – obtain special instructions before use. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### 16. Other Information:

The information contained herein is believed to be accurate and is supplied in good faith. Individuals receiving this data must exercise their own judgement in determining its suitability for a particular purpose.