SCP SCIENCE Material Safety Data Sheet

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

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

Name of Product: *Plasma***CAL** calibration standard for ICP-AES & ICP-MS containing 1000 µg/ml Zn. (Zinc in 4% nitric acid). Traceable to NIST.
Catalogue No: 140-051-300/301/302/305

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:
SCP SCIENCE, 12 Avenue du Québec
Bâtiment I-2 SILIC 642
91965 Courtaboeuf (Les Ulis)
CEDEX, France
Téléphone: 33-01-69-18-71-17
Télécopieur: 33-01-60-92-05-67

In the United States:
SCP SCIENCE
348 Route 11
Champlain, NY
12919-4816
Tel: (800) 361-6820
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_3
LC_{50} (rat-inh): 224 ppm NO_2/30 min.
EU Symbol: C O R Phrases: 8, 35 Contact with combustible material may cause fire. Causes severe burns.

Zinc: (0,1%)
CAS No.: 7440-66-6 EU-Index No.: ---
LD_{50} : unknown
LC_{50} : unknown
EU Symbol : R Phrases : ---

3. Hazards Identification:

Potential Health Effects:
Causes eye and skin irritation or burns in contact.
Ingestion: May be harmful if ingested.

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 this 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^3 (as STEL: 4 ppm, 10 mg/m^3) (ACGIH 1993-1994) .
Zinc: TLV : unknown

---

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:

No component of this preparation is listed in the National Toxicology Program ARC (9th Report on carcinogens) or in the list (June 28, 2002) of chemicals know to the state to cause cancer or reproductive toxicity (California Proposition 65).

EU labelling in accordance with EC Directives:

Symbol: Xi Irritant
R-Phrases: 36/38 Irritating to eyes and skin.
S-Phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

---

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.
