SCP SCIENCE

Material Safety Data Sheet

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SECTION 1 Identification of Substance/Preparation and Company/Undertaking

Name of Product: *Plasma***CAL** calibration standard for ICP-AES & ICP-MS containing 1000 µg/ml Ni. (Nickel in 4% nitric acid). Traceable to NIST.

Catalogue No: 140-051-280/281/282/285

Name of Manufacturer:
SCP SCIENCE
21 800 Clark-Graham
Baie d'Urfé, Québec
Canada H9X 4B6
Tel: (514) 457-0701
Fax: (514) 457-4499
www.scpscience.com

Name of Supplier in Europe:
SCP SCIENCE
12 Avenue du Québec
Bâtiment I-2 SILIC 642
91965 Courtaboeuf, France
Tel: 33-01-69-18-71-17
Fax: 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

SECTION 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. Cause severe burns.

Nickel: (0,1%)
CAS No.: 7440-02-0 EU-Index No.: 028-002-00-7
LD_{50} : (rat-orl) > 9 000 mg/kg
LC_{50} : unknown
EU Symbol : Xn R Phrases : 40, 43 Possible risk of cancer. May cause sensitization by skin contact

The preparation also contains trace amounts (< 0,1%) of various metals and metallic salts.

SECTION 3 Hazards Identification

Potential Health Effects:
Possible risk of cancer.
Causes eye and skin irritation or burns in contact.
Ingestion: A component of this preparation, nickel, may cause cancer.

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

SECTION 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.

SECTION 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.

SECTION 7 Handling and Storage

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

SECTION 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) .
Nickel: TWA 1 mg/m^3

SECTION 9 Physical and Chemical Properties

State: aqueous liquid
Colour: pale green
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: ---

SECTION 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

SECTION 11 Toxicological Information

Acute toxicity of preparation: No information about preparation available. A component, nickel, is suspected of being carcinogenic.
Local effects: The preparation is corrosive.
Long-term toxicity: no information available.

SECTION 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.

SECTION 13 Disposal Considerations

Consult local hazardous or chemical waste disposal agency for regulations.

SECTION 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:

SECTION 15 Regulatory Information

Component(s) of this preparation listed in the National Toxicology Program ARC (10th Report on carcinogens): Nickel Compounds.

Component(s) of this preparation appearing in the list (July 9, 2004) of chemicals known to the state of California to cause cancer or reproductive toxicity: Nickel compounds.

EU labelling in accordance with EC Directives:
Symbol: Xn Harmful

R-Phrases: 40, 36/38 Possible risk of cancer. Irritating to eyes and skin.
S-Phrases: 26, 53, 36/37/39, 45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Avoid exposure – obtain special instructions before use. 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).

SECTION 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.