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|  | <p style="text-align: center;">MSDS Material Safety Data Sheet</p> | Document No.: MSDS067 Version No.: 02 Effective Date: 25 Aug 2011 |
| Tellurium Standard Solution | | |

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

Product Name: Tellurium Standard Solution

Product number: R-300-20STTE-01, R-100-51STTE-01

company: Cogent Environmental Ltd
Unit 3, Edinburgh House
Innovation Park
Cambridge, CB4 0DS
UK

Telephone: +44 (0) 1223 420311

Email: info@cogenv.co.uk

2. Composition/information on ingredients

Product name: Tellurium standard 20 ppm, Tellurium standard 1ppm

CAS number: none

EC number: none

| <u>Hazardous Ingredients</u> | <u>Proportion</u> | <u>CAS-No</u> | <u>EC-No</u> |
|------------------------------|-------------------|---------------|--------------|
| Nitric acid | 2.0% | 7697-37-2 | 231-714-2 |

Symbol: O, C

R-phrases: R8-35

Contact with combustible material may cause fire. Causes severe burns.

3. Hazards identification

Irritating to eyes and skin.

4. First aid measures

If swallowed: Wash out mouth thoroughly providing person is conscious. Do not induce vomiting. Seek medical advice.

After eye contact: Irrigate thoroughly with water for at least 15 minutes. If discomfort persists obtain medical attention.

After skin contact: Remove contaminated clothing. Wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Launder clothing before reuse.

If inhaled: Remove individual from contaminated air, rest and keep warm. If breathing is difficult give oxygen and seek medical assistance.

5. Fire-fighting measures

Not combustible. May evolve toxic fumes in fire.

Fire fighters should wear self contained breathing apparatus if exposure to fumes is likely.

Use water spray or foam to control fire situation if compatible with other chemical products in the vicinity.

6. Accidental release measures

Wear protective clothing when dealing with spills. Neutralise with sodium bicarbonate. Absorb spills with sand or vermiculite. Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with local regulations.

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7. Handling and storage

Handling: Do not breathe vapour. Do not get in eyes, on skin or clothing. Change contaminated clothing. Wash hands after working with substance. Avoid prolonged or repeated exposure. Do not empty into drains.

Storage: Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices. Solution is acidic and may corrode metals.

8. Exposure controls and personal protection

UK Exposure Limits:

Nitric Acid: 10 mg/m³ Short term (4 ppm) & 5.2 mg/m³ long-term (2 ppm) (WEL)

Engineering Controls:

Always use this product with good general ventilation (10-15 changes of air in the room per hour) or preferably in a chemical fume hood. Maintain atmospheric concentrations as low as possible.

Personal Protection:

Avoid all skin and eye contact. Wear protective clothing including safety glasses and rubber or PVC gloves. Never pipette by mouth.

9. Physical and chemical properties

| | |
|---------------------------------|-------------------------|
| Appearance: | Clear colourless Liquid |
| Boiling point (°C): | 100 (approx) |
| Vapour pressure (mmHg at 20°C): | 25 (approx) |
| Specific Gravity (g/mL): | 1.0 |
| Flash Point (°C): | Not flammable |
| Flammability limits (%): | Not flammable |
| Solubility in water (g/L): | Completely miscible |

Other Properties: pH approx 1. Acidic solution. Will corrode metals. Will produce toxic gases on contact with cyanides, sulphides etc.

10. Stability and reactivity

Substances to be avoided: Metals, bases

Hazardous decomposition products: Nitrous gases

11. Toxicological information

After ingestion: May cause irritation of mucous membranes in the mouth, throat, oesophagus and gastrointestinal tract.

After skin contact: May cause irritation.

After eye contact: May cause irritation.

After inhalation: May cause irritation of mucous membranes, coughing, and dyspnoea.

12. Ecological information

Do not allow to enter drinking water supplies, waste water or soil.

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13. Disposal considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe local and national environmental regulations.

14. Transport information

Non – Hazardous for air, road and sea transport.

15. Regulatory information

Labelling according to EC directives

Symbol(s): Xi Irritant

R phrases: 36/38

Irritating to eyes and skin.

S phrases: 26

In case of contact with eyes, wash immediately with plenty of water and seek medical advice.

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

16. Other information

None

All information given by the Company is offered in good faith and is believed to the best of our knowledge to be accurate. However this information is offered without warranty representation inducement or licence and the Company does not assume legal responsibility for reliance upon the same.

Every person dealing with the materials referred to herein does so at his or her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.
