

**Gallium Reagent 5 mg/L****1. Identification of the substance or preparation and the company/undertaking**

Product Name: Gallium Reagent (5 mg/L Ga).

Product number: R-100-001RGA-01

Company: Cogent Environmental Ltd  
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**2. Composition/information on ingredients**

Product name: Gallium reagent (1000 mL)

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.

**Gallium Reagent 5 mg/L****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/m<sup>3</sup> Short term (4 ppm) & 5.2 mg/m<sup>3</sup> 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 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**

No data available

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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**

This product contains less than 5% of the following ingredient  
NITRIC ACID, C (corrosive)  
UN no: 2031, Class 8

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

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