

Agilent Technologies Australia Pty Ltd  
347 Burwood Highway  
Forest Hill  
Victoria 3131, Australia  
1800 802 402

## Non - flammable gas mixture

### 1 . Identification of the material and supplier

#### Names

**Product name** : Non - flammable gas mixture  
**Part No.** : G2933-85193, 196000107  
**ADG** : COMPRESSED GAS, N.O.S. (Helium)

#### Supplier

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
347 Burwood Highway  
Forest Hill  
Victoria 3131, Australia  
1800 802 402

**Emergency telephone number** : Chemtrec: +(61)-290372994

#### Uses

**Area of application** : Industrial applications, Professional applications.  
**Material uses** : Analytical chemistry.  
30AL aluminum cylinder, 144 cubic feet of gas blend

### 2 . Hazards identification

**Classification** : Not regulated.  
**Risk phrases** : Not classified.  
**Safety phrases** : S3/9/14- Keep in a cool, well-ventilated place away from open flames.  
S36- Wear suitable protective clothing.  
**Statement of hazardous/dangerous nature** : NON-HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

### 3 . Composition/information on ingredients

**Mixture** : Yes.

#### Ingredient name

No hazardous ingredient

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

**There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

### 4 . First-aid measures

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe.

**Ingestion** : As this product is a gas, refer to the inhalation section. Get medical attention if symptoms occur.

**Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

## 4 . First-aid measures

**Advice to doctor** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5 . Fire-fighting measures

### Extinguishing media

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** : None known.

**Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : No specific data.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Hazchem code** : 2TE

## 6 . Accidental release measures

**Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up** : Immediately contact emergency personnel. Stop leak if without risk.

## 7 . Handling and storage

**Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Contains gas under pressure. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not puncture or incinerate container.

**Storage** : Do not store above the following temperature: 52°C (125.6°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use.

## 8 . Exposure controls/personal protection

**Occupational exposure limits** : **No exposure standard allocated.**

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### Exposure controls

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 8 . Exposure controls/personal protection

- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. If operating conditions cause high gas concentrations to be produced or any recommended or statutory exposure limit is exceeded, use an air-fed respirator or self-contained breathing apparatus. The gas can cause asphyxiation without warning by replacing the oxygen in the air. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

- Physical state** : Gas.
- Colour** : Colourless.
- Odour** : Odourless.
- Boiling point** : -268.9°C (-452°F)
- Melting point** : Not available.
- Vapour pressure** : Not available.
- Relative density** : 0.1381 [Air = 1]
- Flash point** : Not available.
- Flammable limits** : Not available.
- Vapour density** : Not available.
- pH** : Not available.
- Auto-ignition temperature** : Not available.
- Solubility** : Very slightly soluble in the following materials: cold water and hot water.

## 10 . Stability and reactivity

- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Do not allow gas to accumulate in low or confined areas.
- Materials to avoid** : Not available.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 . Toxicological information

### Potential acute health effects

- Inhalation** : At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
- Ingestion** : As this product is a gas, refer to the inhalation section.
- Skin contact** : Contact with rapidly expanding gas may cause burns or frostbite.
- Eye contact** : Contact with rapidly expanding gas may cause burns or frostbite.

### Acute toxicity

- Conclusion/Summary** : Not available.

### Potential chronic health effects

## 11 . Toxicological information

### Irritation/Corrosion

**Conclusion/Summary** : Not available.

### Sensitiser

**Conclusion/Summary** : Not available.

### Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

**Chronic effects** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin** : No specific data.

**Eyes** : No specific data.

**Target organs** : Contains material which may cause damage to the following organs: lungs.

## 12 . Ecological information

**Ecotoxicity** : May cause long-term adverse effects in the aquatic environment.




### Other ecological information

**Other adverse effects** : No known significant effects or critical hazards.

## 13 . Disposal considerations

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Do not puncture or incinerate container. Empty pressure vessels should be returned to the supplier.

## 14 . Transport information

| Regulation  | UN number | Proper shipping name               | Classes | PG* | Label   | Additional information  |
|-------------|-----------|------------------------------------|---------|-----|---|---|
| <b>ADG</b>  | UN1956    | COMPRESSED GAS,<br>N.O.S. (Helium) | 2.2     | -   |  | <b>Hazchem code</b><br>2TE  |
| <b>IMDG</b> | UN1956    | COMPRESSED GAS,<br>N.O.S. (Helium) | 2.2     | -   |  | <b>Emergency schedules (EmS)</b><br>F-C, S-V  |
| <b>IATA</b> | UN1956    | Compressed gas, n.o.s.<br>(Helium) | 2.2     | -   |  | <b>Passenger and Cargo Aircraft</b> Quantity limitation:<br>75 kg<br>Packaging instructions:<br>200<br><b>Cargo Aircraft Only</b><br>Quantity limitation: 150 kg<br>Packaging instructions:<br>200<br><b>Limited Quantities - Passenger Aircraft</b><br>Quantity limitation:<br>Forbidden |

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## 14 . Transport information

|  |  |  |  |  |  |                                      |
|--|--|--|--|--|--|--------------------------------------|
|  |  |  |  |  |  | Packaging instructions:<br>Forbidden |
|--|--|--|--|--|--|--------------------------------------|

PG\* : Packing group

## 15 . Regulatory information

### Standard for the Uniform Scheduling of Drugs and Poisons

Not regulated.

### Control of Scheduled Carcinogenic Substances

| <u>Ingredient name</u> | <u>Schedule</u> |
|------------------------|-----------------|
| No listed substance    |                 |

**Australia inventory (AICS)** : Not determined.

## 16 . Other information

**Date of issue** : 13/06/2012

**Date of previous issue** : 07/04/2011.

Indicates information that has changed from previously issued version.

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