

Material Safety Data Sheet

1 Identification of substance



Product details

- **Trade name:** Helium (Compressed Gas)
- **Article number:** 033-01-0001
- **Creation date:** 08/14/2006
- **Manufacturer/Supplier:**
 JAY EMM GASES PVT LTD JAY EMM GASES PVT LTD
 Plot No-5 & 6 Nangla Gujran 29 K.m. Sohna Road
 Telephone-9310831092
 24-HOUR EMERGENCY TELEPHONE NUMBER:-9810831092
- **Information department:** Customer Service Centre: 9310831092

2 Composition/Data on components

- **Chemical characterization:**
- **CAS No. Description**
7440-59-7 Helium
- **Identification number(s)**
- **EINECS Number:** 231-168-5

3 Hazards identification

- **Hazard description:**
- **WHMIS-symbols:**
A - Compressed gas



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

- **NFPA ratings (scale 0 - 4)**

Health = 0	Fire = 0	Reactivity = 0
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- **Information pertaining to particular dangers for man and environment:** Not applicable.

- **Classification system:**

The classification is in line with internationally approved calculation standards. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

(Contd. on page 2)CDN



Trade name: Helium (Compressed Gas)

(Contd. of page 1)

· **GHS label elements**



Warning

2.5/C - Contains gas under pressure; may explode if heated.

· **Storage:**

Protect from sunlight. Store in a well-ventilated place.

* **4 First aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for at least 15 minutes under running water. Then consult a doctor.
- **After swallowing:** Not applicable

* **5 Fire fighting measures**

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Wear self-contained respiratory protective device.

* **6 Accidental release measures**

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Stop leak - ONLY if possible to do so without risk.
- **Measures for environmental protection:** Prevent seepage into sewage system, workpits and/or cellars.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.
- **Additional information:** No dangerous substances are released.

* **7 Handling and storage**

- **Handling:**
- **Information for safe handling:**
Handle with care. Avoid jolting, friction, and impact.
Use only in well ventilated areas.
Store cyJAY EMM GASES PVT LTDrs upright with valve protection cap in place and firmly secured to prevent falling or being knocked over.
If difficulty with operating cyJAY EMM GASES PVT LTDr valve is experienced discontinue use and contact supplier.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or
(Contd. on page 3)



Material Safety Data Sheet

Trade name: Helium (Compressed Gas)

(Contd. of page 2)

- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Do not expose cyJAY EMM GASES PVT LTDr to temperatures higher than 50°C (122 °F)
- **Information about storage in one common storage facility:**
Sources of ignition should be removed from storage area.
- **Further information about storage conditions:**
Keep cyJAY EMM GASES PVT LTDr valve tightly closed.
Store cyJAY EMM GASES PVT LTDr in a well ventilated area.
Store in accordance with local fire code and/or building code or any pertaining regulations.

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8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
Adequate local ventillation.
Safety showers and eyewash stations should be nearby.

· **Components with limit values that require monitoring at the workplace:**

7440-59-7 Helium (23-100%)

EL | Simple asphyxiant

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Protective clothing should be kept free of oil and grease.
PPE should be inspected and maintained regularly to retain it's effectiveness.

- **Breathing equipment:**
Use atmosphere-supplying respirators (e.g. supplied-air: demand, pressure-demand, or continuous-flow or self-Contained breathing apparatus: demand or pressure-demand or combination supplied-air with auxiliary self-contained air supply atmosphere-supplying respirator) in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves.

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Eye protection:** Safety glasses

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9 Physical and chemical properties

· **General Information**

Form:	Gaseous.
Color:	Colorless
Odor:	Odorless

(Contd. on page 4)



Material Safety Data Sheet

Trade name: Helium (Compressed Gas)

(Contd. of page 3)

· **Change in condition**

Melting point/Melting range: -272°C

Boiling point/Boiling range: -268°C

· **Flash point:** Not applicable.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Solubility in / Miscibility with
Water at 20°C:** 8.6 g/l

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** LC50 > 5000ppm
- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
The substance is not subject to classification.

12 Ecological information

- **General notes:** Generally not hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Unused product should be returned to vendor.
- **Uncleaned packagings:**
- **Recommendation:**
CyJAY EMM GASES PVT LTDr and unused product should be returned to vendor. Disposable cyJAY EMM GASES PVT LTDr must be disposed of in accordance with local regulations.

(Contd. on page 5)
CDN



Material Safety Data Sheet

Trade name: Helium (Compressed Gas)

· **Recommended cleansing agent:** None applicable.

(Contd. of page 4)

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14 Transport information

· TDG and DOT regulations:



- Hazard class: 2
- Identification number: UN1046
- Proper shipping name (technical name): HELIUM, COMPRESSED
- Label: 2.2

· Maritime transport IMDG:



- IMDG Class: 2.2
- UN Number: 1046
- Label: 2.2
- Marine pollutant: No
- Proper shipping name: HELIUM, COMPRESSED

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 2
- UN/ID Number: 1046
- Label: 2.2
- Proper shipping name: HELIUM, COMPRESSED

· UN "Model Regulation": UN1046, HELIUM, COMPRESSED, 2.2

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15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

(Contd. on page 6)

CDN



Trade name: Helium (Compressed Gas)

(Contd. of page 5)

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Cancerogenicity categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

Substance is listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

· Canadian Ingredient Disclosure list (limit 1%)

Substance is not listed.

· Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The substance is not subject to classification according to the sources of literature known to us.

The product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

· Safety phrases:

Keep container tightly closed in a cool place.

*** 16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Please refer to the section 3 for NFPA and HMIS Hazard Codes.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

(Contd. on page 7)

CDN



Material Safety Data Sheet

Trade name: Helium (Compressed Gas)

(Contd. of page 6)

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GENERAL DISCLAIMER

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· **Department issuing MSDS:** Customer Service Centre: 9310831092

· **Abbreviations and Acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

N/A: Not Applicable

LC50: Lethal Concentration, 50 Percent

LD50: Lethal Dose, 50 Percent

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists EINECS:

European Inventory of Existing Commercial Chemical Substances CAS:

Chemical Abstracts Service (division of the American Chemical Society)

WHMIS: Workplace Hazardous Materials Information System (Canada)

CDN