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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name	Neon
Chemical description	Neon
CAS N°	7440-01-9
CE N°	231-110-9
Index N°	-
Registration n°	Listed in Annex IV / V REACH, exempted from registration
Chemical formula	Ne

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Industrial and professional Test gas/Calibration gas Laser gas Laboratory use Contact supplier for more information on uses
Uses advised against	Consumer use not recommended

### 1.3. Details of the supplier of the safety data sheet

Company identification	MULTIGAS Route de l'Industrie 102 CH-1564 Domdidier
Phone number	+41 (0) 26 676 94 94
E-mail address	<a href="mailto:info@multigas.ch">info@multigas.ch</a>

### 1.4. Emergency telephone numbers

145 (Toxicology Centre Zurich) or +41 (0) 44 251 51 51  
+41 (0) 26 676 94 94 (Multigas)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

<b>Physical hazards</b>	Gases under pressure : Compressed gas	H280
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For the complete H-sentences texts mentioned in that chapter, refer to Section 16

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## 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS04

Signal word

Hazard statements

H280

Warning

Contains gas under pressure; may explode if heated

Precautionary statements

P410+403

Protect from sunlight. Store in a well-ventilated place

## 2.3. Other hazards

Asphyxiant in high concentrations

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name	Product identifier	Concentration	Classification
Neon	(CAS-No.) 7440-01-9 (EC-No.) 231-110-9 (EC Index-No.) --- (Registration-No.) --	<= 100%	Press. Gas (Comp.), H280

For the complete H-sentences texts mentioned in that chapter, refer to Section 16

Contains no other components or impurities which will influence the classification of the product

### 3.2. Mixtures

Not established

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice


See a doctor. Show this safety data sheet to the attending physician

In case of inhalation

In case of inhalation, remove the person from the contaminated area. In case of respiratory arrest, give artificial respiration. See a doctor

In case of skin contact

Adverse effects not expected from this product

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**In case of eyes contact**

Adverse effects not expected from this product

**In case of ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. See a doctor

#### **4.2. Most important symptoms and effects, both acute and delayed**

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation  
Refer to section 11

#### **4.3. Indication of any immediate medical attention and special treatment needed**

None

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable extinguishing media**

Water spray or water mist. Dry powder. Carbon dioxide. Foam

**Unsuitable extinguishing media**

No data available

#### **5.2. Special hazards arising from the substance or mixture**

**Specific hazards**

Exposure to fire may cause containers to rupture/explode

**Hazardous combustion products**

No data available

#### **5.3. Additional information**

Cool endangered receptacles with water spray jet from a protected position

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**


Avoid breathing vapours, spray mists or gases  
Provide adequate ventilation  
Evacuate personnel to a safe place  
Personal protective equipment, see section 8

#### **6.2. Environmental precautions**

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#### **6.3. Methods and material for containment and cleaning up**

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#### **6.4. Reference to other sections**

See also sections 8 and 13

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

For precautions, see section 2.2

#### **7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place

Content under pressure

#### **7.3. Specific end use(s)**

None

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

##### **Components with occupational exposure limits**

Component	CAS N°	Exposure value type	Control parameter	Source
Neon	7440-01-9	TWA	-	No occupational exposure limit value
			-	
		OEL	-	
			-	

#### **8.2. Exposure controls**

##### **8.2.1. Appropriate engineering controls**

Provide adequate general and local exhaust ventilation

Oxygen detectors must be used when asphyxiating gases can be released

##### **8.2.2. Individual protection measures, e.g. personal protective equipment**

###### **Eye/face protection**

Wear goggles and a face shield when transfilling or breaking transfer connections. Standard EN 166

###### **Skin / hand protection**

Wear protective gloves when handling gas cylinders. Standard EN 388- Protective gloves against mechanical hazards

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**Respiratory protection**

Self-contained breathing apparatus (SCBA) or positive pressure air mask must be used in oxygenated atmospheres. Standard EN 137 - Self-contained compressed air device with a full face mask

**8.2.3. Environmental exposure controls**

-

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**
**Appearance**

- **Physical state at 20°C / 101.3kPa** Gas
- **Colour** Colourless

**Odour** No data available

**Odour threshold** No data available

**pH** No data available

**Melting point / Freezing point** -248.7°C

**Boiling point** -246°C

**Flash point** No data available

**Evaporation rate** No data available

**Flammability (solid, gas)** No data available

**Explosive limits** No data available

**Vapour pressure [20°C]** No data available

**Vapour pressure [50°C]** No data available

**Vapour density** No data available

**Relative density, liquid (water=1)** No data available

**Relative density, gas (air=1)** 0.7

**Water solubility** 8.9 mg/l

**Partition coefficient** No data available

**n-octanol/water (Log Kow)**

**Auto-ignition temperature** No data available

**Decomposition temperature** No data available

**Viscosity** No data available

**Explosive properties** No data available

**Oxidising properties** No data available

**9.2. Other information**

**Molar mass** 20 g/mole

**Critical temperature [°C]** -229°C

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Relative density, gas 0.7

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No reactivity hazard other than the effects described in sub-sections below

**10.2. Chemical stability**

Stable under recommended storage conditions

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

No data available  
 For more information on compatibility, refer to ISO 11114

**10.6. Hazardous decomposition products**

No data available

**SECTION 11: Toxicological information**

**11.1. Chemical safety assessment**

<b>Acute toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/irritation</b>	No data available
<b>Respiratory or skin sensitisation</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>STOT-single exposure – Target organ(s)</b>	No data available
<b>STOT-repeated exposure</b>	No data available
<b>Ingestion hazard</b>	No data available

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**SECTION 12: Ecological information**

**12.1. Toxicity**

Assessment No data available

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

PBT / vPvB assessment is not available because the chemical safety assessment is not required / is not conducted

**12.6. Other adverse effects**

No data available

**SECTION 13: Disposal considerations**


**13.1. Waste treatment methods**

<b>Product</b>	May be vented to atmosphere in a well ventilated place Return unused product in original cylinder to supplier
<b>Contaminated container</b>	Eliminate as unused product
<b>OMoD Code</b>	16 05 05 Gases in pressure containers other than those mentioned in 16 05 04

**SECTION 14: Transport information**

**14.1. UN number**

Transport par road/rail ADR / RID	Transport by sea IMDG	Transport by air IATA
1065	1065	1065

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#### **14.2. UN proper shipping name**

Transport par road/rail ADR / RID	Transport by sea IMDG	Transport by air IATA
Neon compressed	Neon compressed	Neon compressed

#### **14.3. Transport hazard class(es)**

Labelling



ADR/RID  
IMDG  
IATA

2.2 : Non-flammable, non-toxic gases

#### **14.4. Packing group**

ADR/RID  
IMDG  
IATA

Not established

#### **14.5. Environmental hazards**

ADR/RID

None

IMDG

None

ICAO-TI / IATA-DGR

None

#### **14.6. Special precautions for user**

No data available

#### **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

### **SECTION 15: Regulatory information**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (CE) No. 1907/2006

#### **15.2. Chemical safety assessment**

A CSA does not need to be carried out for this product



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## SECTION 16: Other information

<b>Indication of changes</b>	Revised safety data sheet in accordance with commission regulation (EU) No 2015/830
<b>Abbreviations and acronyms</b>	<p>ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>CAS : Chemical Abstract Service number (USA)</p> <p>CLP : Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</p> <p>CSA : Chemical Safety Assessment</p> <p>EIGA : European Industrial Gases Association</p> <p>EINECS : European Inventory of Existing Commercial Chemical Substances</p> <p>EN : European Standard</p> <p>ATE : Acute Toxicity Estimate</p> <p>IATA : International Air Transport Association</p> <p>IMDG Code : International Maritime Dangerous Goods Code</p> <p>LC50 : Lethal Concentration to 50 % of a test population</p> <p>OMoD : Swiss Ordinance on the movement of waste</p> <p>PBT : Persistent, Bioaccumulative and Toxic</p> <p>PPE: Personal Protection Equipment</p> <p>REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006</p> <p>RID : Regulations concerning the international carriage of dangerous goods by rail</p> <p>RMM : Risk Management Measures</p> <p>STOT-SE : Specific Target Organ Toxicity - Single Exposure</p> <p>UN : United Nations</p> <p>vPvB : Very Persistent and Very Bioaccumulative</p> <p>WGK: Water Hazards Class</p>

### Full text of H, EUH and P statements used in sections 2 and 3

<b>Hazard statements</b>	Warning
H280	Contains gas under pressure; may explode if heated
<b>Precautionary statements</b>	
P410+403	Protect from sunlight. Store in a well-ventilated place

**Disclaimer of liability**

Details given in this document have been prepared based on the most available reliable documents and are believed to be correct at the time of going to press

They do not claim to be exhaustive and should be considered as a guide