



## Material Safety Data Sheet Nitrogen, Compressed

Creation date: 28-Jul-2020

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

Product name: Nitrogen, compressed  
Chemical formula: N<sub>2</sub>  
Company identification: Harvest Wise Gases (H.K.) Company Limited  
Emergency phone number (24hr): 25534121

### 2 Hazards identification

It is flammable high-pressure gas. If valve is opened to air, it may ignite and form explosive mixtures. It is a colorless, odorless, tasteless gas under ambient conditions.

### 3 Composition/information on ingredients

**Components/Impurities:** Nitrogen

**CAS registry no. :** 7727-37-9

**EC no. (from EINECS) :** 231-783-9

It does not contain any other components or impurities which can influence the classification of the product.

### 4 First aid measures

#### Ingestion

Ingestion is not considered a common mean of way of contact.

#### Inhalation

Asphyxiation may be caused by inhalation in high concentrations of gases. Loss of mobility or consciousness is one of Symptoms. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. If breathing stopped, apply artificial respiration.

### 5 Firefighting measure

#### Specific hazards

Explosion or rupture may occur if the container is near fire source.

#### Harm from combustion products

None

#### Suitable extinguishing media

All types of different fire extinguishers can be used.

#### Specific methods

Explosive firing or spontaneous reignition may occur. Thus don't try to extinguish a leaking gas flame unless it is absolutely required. Also, stopping the flow of the chemical should be carried out if possible.



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### Special protective equipment for fire fighters

Self contained breathing apparatus should be used especially in confined spaces. Portable gas detector and walkie talkie should be carried by the fire fighters if the fire is in confined or enclosed spaces.

### 6 Accidental release measure

#### Personal precautions

Evacuate the area and ensure adequate air ventilation is provided. Try to eliminate any ignition sources if possible.

Self contained breathing apparatus should be used especially in confined spaces.

#### Environmental precautions

The release of the gases should be stopped by any possible methods.

#### Clean up methods

Natural ventilation or force draft ventilation of the contaminated area should be a standard procedure.

### 7 Handling and storage

#### Handling

Only properly manufactured and certified equipment should be used together with this chemical. The complete equipment should be ground to prevent spark which can cause firing or even explosion. Sucking back of water into the gas cylinder must be prevented. Do not use direct flame or electrical heating devices to increase the pressure of a cylinder. Leave valve protection caps in place until the cylinder has been stand properly and is ready for use. Contact with eyes, skin and clothing should be avoided. Empty cylinder retain product residue and can be hazardous.

#### Storage

The pressure vessel should be secured tightly in a well ventilated space and kept under 50°C.

Separating them from flammable gases, especially dissolved acetylene, is required.

### 8 Exposure controls/personal protection

#### Personal protection

Proper personal protective equipment should be worn, for example, chemical gloves, safety goggles, safety helmet.

Adequate ventilation is required. Smoking should be strictly prohibited.

### 9 Physical and chemical properties

#### General information

**General appearance:** Colourless gas.

**Odour:** odorless



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### Important information on environment, health and safety

**Chemical formula:** N<sub>2</sub>

**Molecular mass:** 28 g mol<sup>-1</sup>

**Density:** 1.16 kg m<sup>-3</sup>

**Melting point:** -210 °C

**Boiling point:** -196 °C

**Critical temperature:** -147 °C

**Autoignition temperature:** Not applicable

**Vapor pressure:** Not applicable

**Magnetic susceptibility:** Not applicable

**Solubility in water:** 20mg/l

### 10 Stability and reactivity

#### Stability and reactivity

Stable under normal conditions.

### 11 Toxicological information

#### General

No known toxicological effects are found out.

### 12 Ecological information

#### General

No known ecological effects are found out.

### 13 Disposal considerations

#### General

Waste gas can be purged out to fully ventilated space. Don't release near any combustible materials. It is better for you to contact us for the disposal.

### 14 Transport information

#### IMDG

Class 2.2

#### UN number and proper shipping name

UN 1066 Nitrogen, compressed



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Labels 2.2

Packing Instruction P200

EmS F-C

### ADR/RID

Class 2 Classification Code 1A

### UN number and proper shipping name

UN 1066 Nitrogen, compressed

UN 1066 Nitrogen, compressed

Labels 2.2 Hazard number 20

Packing Instruction P200

### IATA

Class 2.2

### UN number and proper shipping name

UN 1066 Nitrogen, compressed

Labels 2.2

Packing Instruction P200

### Other transport information

Vehicle driver should have basic understanding of the risk of the chemical and what should be done in emergency.

The gas cylinder should be properly secured to prevent falling down when the vehicle is moving. The cylinder valves and safety devices would be checked by our professional personnel before the cylinders leave our company.

## 15 Regulatory information

### General

All the local regulation should be strictly followed before using the gases. All the related personnel should receive proper training before using the gases.

### Chemical safety assessment

Risk assessment should be carried out by proper qualified person before using the gases.

## 16 Other information

This MSDS should be fully understood before using the gases. Contact us if you have any doubt. Meanwhile, We do not have any liability for damage or injury caused due the usage of this MSDS. Due to proper preparation of this MSDS, all the details are believed to be correct at the time of releasing.