

# **SAFETY DATA SHEET**

# 1001

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

**LESS THAN 0.75% PENTANE BALANCE AIR Product name** 

1001 - SDS NUMBER • PRODUCT CODES: 285, 288 • SPECIAL GAS MIXTURE Synonym(s)

1.2 Uses and uses advised against

Use(s) **CALIBRATION • INDUSTRIAL APPLICATIONS** 

1.3 Details of the supplier of the product

Supplier name **BOC LIMITED (AUSTRALIA)** 

**Address** 10 Julius Avenue, North Ryde, NSW, 2113, AUSTRALIA

**Telephone** 131 262, (02) 8874 4400 132 427 (24 hours) Fax http://www.boc.com.au Website

1.4 Emergency telephone number(s)

**Emergency** 1800 653 572 (24/7) (Australia only)

## 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS classification(s) Gases Under Pressure: Compressed gas

2.2 Label elements

**WARNING** Signal word

Pictogram(s)



Hazard statement(s)

H280 Contains gas under pressure; may explode if heated.

Prevention statement(s)

None allocated.

Response statement(s)

None allocated.

Storage statement(s)

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal statement(s)

None allocated.

2.3 Other hazards

No information provided.

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# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredie	nt	CAS Number	EC Number	Content (v/v)
PENTAN	IE	109-66-0	203-692-4	<0.75%
AIR		-	-	>99.25%

#### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

Eye None required.

Inhalation If inhaled, remove from contaminated area. If other than minor symptoms are displayed, seek immediate

medical attention. An inhalation hazard is not anticipated under normal conditions of use. For advice, contact

a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor.

Skin None required.

**Ingestion** Due to product form and application, ingestion is considered unlikely.

First aid facilities No information provided.

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

No adverse health effects expected if the product is handled in accordance with the SDS and the product label.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Use water fog to cool containers from protected area.

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

Non flammable.

### 5.3 Advice for firefighters

Temperatures in a fire may cause cylinders to rupture. Cool cylinders or containers exposed to fire by applying water from a protected location. Remove cool cylinders from the path of the fire. Evacuate the area if unable to keep cylinders cool. Do not approach cylinders or containers suspected of being hot.

### 5.4 Hazchem code

2TE

2 Fine Water Spray.

T Wear full fire kit and breathing apparatus. Dilute spill and run-off.

E Evacuation of people in and around the immediate vicinity of the incident should be considered.

### 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

If the cylinder is leaking, evacuate area of personnel. Inform manufacturer/supplier of leak. Use Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS.

#### 6.2 Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

#### 6.3 Methods of cleaning up

Carefully move material to a well ventilated remote area, then allow to discharge if safe to do so. Do not attempt to repair leaking valve or cylinder safety devices.

### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.



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## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Use of safe work practices are recommended to avoid inhalation. Do not drag, drop, slide or roll cylinders. The uncontrolled release of a gas under pressure may cause physical harm. Use a suitable hand truck for cylinder movement.

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

Cylinders should be stored below 45°C in a secure area, upright and restrained to prevent cylinders from falling. Cylinders should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete), away from areas of heavy traffic and emergency exits.

### 7.3 Specific end use(s)

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

### **Exposure standards**

Ingredient	Reference	TWA		STEL	
Ingredient		ppm	mg/m³	ppm	mg/m³
Pentane	SWA (AUS)	600	1770	750	2210

#### **Biological limits**

No biological limit values have been entered for this product.

#### 8.2 Exposure controls

**Engineering controls** No special precautions are normally required when handling this product. Maintain vapour levels below the

recommended exposure standard.

PPE

Wear safety glasses. Eve / Face Hands Wear leather gloves. **Body** Wear safety boots.

Respiratory Not required under normal conditions of use.







### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance COLOURLESS GAS** Odour **ODOURLESS Flammability** NON FLAMMABLE Flash point NOT RELEVANT **Boiling point NOT AVAILABLE Melting point NOT AVAILABLE Evaporation rate** NOT APPLICABLE **NOT APPLICABLE** pН Vapour density **NOT AVAILABLE** Specific gravity **NOT APPLICABLE** Solubility (water) NOT AVAILABLE Vapour pressure **NOT AVAILABLE** Upper explosion limit NOT RELEVANT Lower explosion limit NOT RELEVANT Partition coefficient NOT AVAILABLE **Autoignition temperature** NOT AVAILABLE **Decomposition temperature** NOT AVAILABLE

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#### PRODUCT NAME LESS THAN 0.75% PENTANE BALANCE AIR

9.1 Information on basic physical and chemical properties

Viscosity

Explosive properties

Oxidising properties

Odour threshold

NOT AVAILABLE

NOT AVAILABLE

NOT AVAILABLE

9.2 Other information

Cylinder pressure (when full) < 13000 kPa @ 13°C

% Volatiles 100 %

## 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

#### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

#### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

#### 10.5 Incompatible materials

Compatible with most commonly used materials.

#### 10.6 Hazardous decomposition products

This material will not decompose to form hazardous products other than that already present. May evolve carbon oxides when heated to decomposition.

### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

Skin Not classified as a skin irritant.

Eye Not classified as an eye irritant.

**Sensitization** Not classified as causing skin or respiratory sensitisation.

MutagenicityNot classified as a mutagen.CarcinogenicityNot classified as a carcinogen.

**Reproductive** Not classified as a reproductive toxin.

STOT – single Not classified as causing organ effects

exposure

Not classified as causing organ effects from single exposure.

STOT - repeated

exposure

Not classified as causing organ effects from repeated exposure.

**Aspiration** Not classified as causing aspiration.

### 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No information provided.

# 12.2 Persistence and degradability

No information provided.

### 12.3 Bioaccumulative potential

No information provided.

### 12.4 Mobility in soil

No information provided.



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#### PRODUCT NAME LESS THAN 0.75% PENTANE BALANCE AIR

#### 12.5 Other adverse effects

No known ecological damage is caused by this product.

### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal Cylinders should be returned to the manufacturer or supplier for disposal of contents.

**Legislation** Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION

#### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1956	1956	1956
14.2 Proper Shipping Name	COMPRESSED GAS, N.O.S. (Contains air)	COMPRESSED GAS, N.O.S. (Contains air)	COMPRESSED GAS, N.O.S. (Contains air)
14.3 Transport hazard class	2.2	2.2	2.2
14.4 Packing Group	None Allocated	None Allocated	None Allocated

14.5 Environmental hazards No information provided

### 14.6 Special precautions for user

 Hazchem code
 2TE

 GTEPG
 2C1

 EMS
 F-C, S-V

Other information Ensure cylinder is separated from driver and that outlet of relief device is not obstructed.

### 15. REGULATORY INFORMATION

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

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous

Substances [NOHSC: 1008(2004)].

Hazard codes None allocated.

Risk phrases None allocated.

Safety phrases None allocated.

Inventory listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

### 16. OTHER INFORMATION

Additional information

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#### PRODUCT NAME LESS THAN 0.75% PENTANE BALANCE AIR

The storage of significant quantities of gas cylinders must comply with AS4332 The storage and handling of gases in cylinders.

APPLICATION METHOD: Gas regulator of suitable pressure and flow rating fitted to cylinder or manifold with low pressure gas distribution to equipment.

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

#### **Abbreviations**

**ACGIH** American Conference of Governmental Industrial Hygienists

CAS# Chemical Abstract Service number - used to uniquely identify chemical compounds

**CNS** Central Nervous System

EC No. EC No - European Community Number

**EMS** Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

Group Text Emergency Procedure Guide **GTEPG** IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m<sup>3</sup> Milligrams per Cubic Metre OEL Occupational Exposure Limit

relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly рΗ

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure) STOT-SE Specific target organ toxicity (single exposure)

**SUSMP** Standard for the Uniform Scheduling of Medicines and Poisons

**SWA** Safe Work Australia TLV Threshold Limit Value **TWA** Time Weighted Average

### **Revision history**

Revision	Description
2.0	Standard SDS Review
1.0	Initial SDS creation

### Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.



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# PRODUCT NAME LESS THAN 0.75% PENTANE BALANCE AIR

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