

SAFETY DATA SHEET

1100

Product Name LESS THAN 750 PPM WATER (MOISTURE) BALANCE NITROGEN

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name BOC LIMITED (AUSTRALIA)

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

Telephone 131 262, (02) 8874 4400

Fax 132 427 (24 hours)

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

Web Site http://www.boc.com.au/

Synonym(s) 1100 - SDS NUMBER · PRODUCT CODES: 285, 288 · SPECIAL GAS MIXTURE

Use(s) CALIBRATION · INDUSTRIAL APPLICATIONS

SDS Date 18 January 2012

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

None allocated

SAFETY PHRASES

None allocated

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

UN Number 1956 **DG Division** 2.2

Packing Group None Allocated Subsidiary Risk(s) None Allocated

Hazchem Code 2TE

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Formula	Cas No.	Content (v/v)
WATER	H2O	7732-18-5	<0.075%
NITROGEN	N2	7727-37-9	Remainder

4. FIRST AID MEASURES

Eve None required.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator or Self

Contained Breathing Apparatus (SCBA). Apply artificial respiration if not breathing. Give oxygen if available. 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.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Non flammable.

ChemAlert.

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Fire and Explosion Temperatures in a fire may cause cylinders to rupture. Cool cylinders or containers exposed to fire by

applying water from a protected location. Do not approach cylinders or containers suspected of being

hot

Extinguishing Use water fog to cool containers from protected area.

Hazchem Code 2TE

2 Water Fog (or fine water spray if fog unavailable)

T Self Contained Breathing apparatus and protective gloves.

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

6. ACCIDENTAL RELEASE MEASURES

Spillage If the cylinder is leaking, evacuate area of personnel. Inform manufacturer/supplier of leak. Use personal protective equipment. Carefully move material to a well ventilated remote area, then allow

to discharge. Do not attempt to repair leaking valve or cylinder safety devices.

7. STORAGE AND HANDLING

Storage 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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Ingredient	Reference	TWA		STEL		
	Reference	ppm	mg/m³	ppm	mg/m³	
Nitrogen	SWA (AUS)	Asphyxiant				

Biological Limits No biological limit allocated.

Engineering Controls Provide suitable ventilation to minimise or eliminate exposure. Confined areas (eg. tanks) should be

adequately ventilated or gas tested. Maintain vapour levels below the recommended exposure

standard.

PPE

Eye / FaceWear safety glasses.HandsWear leather gloves.BodyWear safety boots.

Respiratory Where an inhalation risk exists, wear Self Contained Breathing Apparatus (SCBA) or an Air-line

respirator.







9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance COLOURLESS GAS
Odour ODOURLESS
Flammability NON FLAMMABLE
Flash point NOT RELEVANT

Boiling point -196°C

Melting point NOT RELEVANT
Evaporation rate NOT APPLICABLE
pH NOT APPLICABLE

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Vapour density 0.967 (Air = 1) (Nitrogen)**NOT APPLICABLE** Specific gravity Solubility (water) 0.0149 cm³/cm³ NOT AVAILABLE Vapour pressure **Upper explosion limit** NOT AVAILABLE Lower explosion limit NOT AVAILABLE NOT AVAILABLE **Autoignition temperature NOT AVAILABLE Decomposition temperature NOT AVAILABLE Viscosity NOT AVAILABLE Partition coefficient**

% Volatiles 100 %

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to Avoid Avoid shock, friction, heavy impact, heat, sparks, open flames and other ignition sources.

Compatible with most commonly used materials. Material to Avoid May evolve toxic gases if heated to decomposition.

Hazardous Decomposition

Hazardous Reactions

Products

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Asphyxiant gas. Symptoms of exposure are directly related to displacement of oxygen. As the **Health Hazard** Summary amount of oxygen inhaled is reduced from 21-14% volume, the pulse rate may accelerate and the

rate and volume of breathing may increase. The ability to maintain attention and think clearly is diminished, muscular co-ordination is somewhat disturbed. As oxygen decreases from 14-10% volume, judgement becomes faulty, severe injuries may result in no pain. Muscular effort may lead to rapid fatigue. Further reduction to 6% may result in nausea and vomiting. Ability to move may be lost. Permanent brain damage may result even after resuscitation from exposure to this low level of oxygen. Below 6% breathing is in gasps and convulsions may occur. Inhalation of a mixture containing no oxygen may result in unconsciousness from the first breath and death may follow in

minutes.

Eve Non irritant.

Non irritant - Asphyxiant. Effects are proportional to oxygen displacement. Inhalation

Skin Non irritant.

Ingestion Ingestion is considered unlikely due to product form.

No LD50 data available for this product. **Toxicity Data**

12. ECOLOGICAL INFORMATION

Environment Product is not harmful to the environment.

13. DISPOSAL CONSIDERATIONS

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)



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Proper Shipping Name COMPRESSED GAS, N.O.S. - -

(Contains nitrogen)

None Allocated

DG Class/ Division 2.2 - - - Subsidiary Risk(s) None Allocated - - -

GTEPG 2C1
Specific EPG None Allocated

Environmental Hazards

Hazchem Code 2TE

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

15. REGULATORY INFORMATION

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)

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

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional Information

Packing Group

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 ChemAlert 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

GHS Globally Harmonized System

IARC International Agency for Research on Cancer

mg/m³ Milligrams per Cubic Metre
PEL Permissible Exposure Limit

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

alkaline).

ppm Parts Per Million

REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

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

TLV Threshold Limit Value

TWA/OEL Time Weighted Average or Occupational Exposure Limit

Revision History



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Report Status

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

It is based on information concerning the product which has been provided to RMT by the manufacturer 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.

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.

Prepared By

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End of SDS



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