

SAFETY DATA SHEET

1805

Product Name LESS THAN 500 PPM METHANOL, 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) 1805 - MSDS NUMBER · PRODUCT CODES: 292 · SPECIAL GAS MIXTURE

Use(s) CALIBRATION · INDUSTRIAL APPLICATIONS

SDS Date 26 April 2012

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS (GHS) 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	Identification	Classification	Content
METHANOL	CAS: 67-56-1 EC: 200-659-6	F;R11 T;R23/24/25 T;R39/23/24/25	<0.05%
NITROGEN	CAS: 7727-37-9 EC: 231-783-9	Not Available	Remainder

4. FIRST AID MEASURES

Eye 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.



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5. FIRE FIGHTING MEASURES

Flammability Non flammable.

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. 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.

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	
Ingredient		ppm	mg/m³	ppm	mg/m³
Methanol	SWA (AUS)	200	262	250	328
Nitrogen	SWA (AUS)	Asphyxiant			

Biological Limits

Ingredient	Reference	Determinant	Sampling Time	BEI
METHANOL	ACGIH BEI	Methanol in urine	End of shift	15 mg/L

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.









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9. PHYSICAL AND CHEMICAL PROPERTIES

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

% Volatiles 100 %

Cylinder pressure (when full)

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

13,000 kPa @ 15°C

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

heat, sparks, open flames and other ignition sources.

Material to Avoid Compatible with most commonly used materials.

Hazardous Decomposition

Products

This material will not decompose to form hazardous products.

Hazardous Reactions Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Asphyxiant gas. Symptoms of exposure are directly related to displacement of oxygen. As the 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. Experimental reproductive effects and human mutation data reported for methanol.

Eye Non irritant.

Inhalation Asphyxiant. Effects are proportional to oxygen displacement. Acts as a simple asphyxiant by

displacing oxygen in the lungs thereby diminishing the supply of oxygen to the blood and tissues.

Skin Non irritant

Ingestion Ingestion is considered unlikely due to product form.

Toxicity Data METHANOL (67-56-1)

LC50 (inhalation) 50 g/m³/2 hours (mouse)
LCLo (inhalation) 1000 ppm (monkey)
LD50 (ingestion) 5628 mg/kg (rat)
LD50 (skin) 15,800 mg/kg (rabbit)
LDLo (ingestion) 143 mg/kg (human)
LDLo (skin) 393 mg/kg (monkey)

TCLo (inhalation) 300 ppm human (visual effects)
TDLo (ingestion) 3429 mg/kg (man-visual change)

12. ECOLOGICAL INFORMATION

Environment Product is not harmful to the environment.



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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)
UN Number	1956	-	-
Proper Shipping Name	COMPRESSED GAS, N.O.S.	-	-
DG Class/ Division	2.2	-	-
Subsidiary Risk(s)	None Allocated	-	-
Packing Group	None Allocated	-	-
GTEPG	2C1		
Hazchem Code	2TE		

Ensure cylinder is separated from driver and that outlet of relief device is not obstructed. Refer to Other Information Commonwealth, State and Territory Dangerous Goods Legislation which contain requirements

which affect gas storage and transport.

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

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.

ChemAlert.

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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

Revision	Description
1.0	Standard SDS Review.

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.

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End of SDS



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