

SAFETY DATA SHEET

2575

<1% HEXANE, BALANCE NITROGEN **Product Name**

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)

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

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

Synonym(s) 2575 - SDS NUMBER · SPECIAL GAS MIXTURE Use(s) CALIBRATION · INDUSTRIAL APPLICATIONS

SDS Date 29 June 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

1956 2.2 **UN Number DG** Division

None Allocated **Packing Group** None Allocated Subsidiary Risk(s)

Hazchem Code 2TF

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Identification	Classification	Content (v/v)
N-HEXANE	CAS: 110-54-3 EC: 203-777-6	F;R11 Xi;R38 Repr.;R62 Xn;R65 Xn;R48/20 Xn;R67 N;R51/53	<5%
NITROGEN	CAS: 7727-37-9 EC: 231-783-9	Not Available	Remainder

4. FIRST AID MEASURES

None required. Eve

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.

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

Treat symptomatically. **Advice to Doctor**



Page 1 of 5

SDS Date: 29 Jun 2012

Product Name <1% HEXANE, BALANCE NITROGEN

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

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
Nitrogen	SWA (AUS)	Asphyxiant			
n-Hexane	SWA (AUS)	20	72		

Biological Limits

Ingredient	Reference	Determinant	Sampling Time	BEI
N-HEXANE	ACGIH BEI	2,5-Hexanedione in urine	End of shift at	0.4 mg/L
		(without hydrolysis)	end of workweek	

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.









SDS Date: 29 Jun 2012

9. 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
pH NOT APPLICABLE

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 Autoignition temperature** NOT AVAILABLE NOT AVAILABLE **Decomposition temperature** Viscosity NOT AVAILABLE

Partition coefficient NOT AVAILABLE % Volatiles 100 %

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to Avoid Avoid Avoid shock, friction, heavy impact, 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.

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 N-HEXANE (110-54-3)

LC50 (inhalation) 48000 ppm/4 hours (rat)

LD50 (ingestion) 25 g/kg (rat) LD50 (skin) 3000 mg/kg (rabbit)

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.



Page 3 of 5 SDS Date: 29 Jun 2012 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. (contains Nitrogen)	-	-
DG Class/ Division	2.2	-	-
Subsidiary Risk(s)	None Allocated	-	-
Packing Group	None Allocated	-	-
GTEPG	2C1		
Hazchem Code	2TE		
Other Information	Ensure cylinder is separated from	driver and that outlet of relie	f device is not obstructed. I

Ensure cylinder is separated from driver and that outlet of relief device is not obstructed. Refer to 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.

Page 4 of 5

SDS Date: 29 Jun 2012

Product Name <1% HEXANE, BALANCE NITROGEN

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 LD50 Lethal Dose, 50% / Median Lethal Dose

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	Initial SDS Creation

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

Risk Management Technologies 5 Ventnor Ave, West Perth Western Australia 6005 Phone: +61 8 9322 1711 Fax: +61 8 9322 1794 Email: info@rmt.com.au Web: www.rmt.com.au

Revision: 1

SDS Date: 29 June 2012

End of SDS



Page 5 of 5

SDS Date: 29 Jun 2012