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NITROGEN MIX - 60ppm CH4

1541149 - 60PPM CH4



Warning



SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name : NITROGEN MIX - 60ppm CH4
SDS Nr : 1541149 - 60PPM CH4

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.

Test gas / Calibration gas. Laboratory use Contact supplier for more uses information

Details of the supplier of the safety data sheet

Company identification : AIR LIQUIDE (PTY) LTD

Crn Vereeniging Road & Andre Marais Street

Alrode, Alberton

Gauteng SOUTH AFRICA Tel.: +27 87 288 1100 : scr.sales@airliquide.com

Emergency telephone number

Emergency telephone number : +27 87 288 1100

SECTION 2. Hazards identification

Classification of the substance or mixture

E-Mail address (competent person)

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

• Physical hazards : Gases under pressure - Compressed gas - Warning - (CLP : Press. Gas) - H280

Classification EC 67/548 or EC 1999/45

: Not classified as dangerous substance/mixture.

Label elements

Labelling Regulation EC 1272/2008 (CLP)

· Hazard pictograms



• Hazard pictograms code : GHS04 • Signal word : Warning

• Hazard statements : H280 - Contains gas under pressure; may explode if heated.

Precautionary statements

- Storage : P403 - Store in a well-ventilated place.

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SECTION 2. Hazards identification (continued)

Other hazards

: Asphyxiant in high concentrations.

SECTION 3. Composition/information on ingredients

Substance / 3.2. Mixture

Mixture.

Substance name		Contents	CAS No	EC No	Index No	Registration no	Classification
Nitrogen	:	>= 89.9946 %	7727-37-9	231-783-9		*1	Not classified (DSD/DPD)
_							Press. Gas (H280)

Contains no other components or impurities which will influence the classification of the product.

- * 1: Listed in Annex IV / V REACH, exempted from registration.
- * 2: Registration deadline not expired.
- * 3: Registration not required: Substance manufactured or imported < 1t/y Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16

SECTION 4. First aid measures

Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep

victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

Skin contact
 Eye contact
 Adverse effects not expected from this product.
 Adverse effects not expected from this product.
 Ingestion
 Ingestion is not considered a potential route of exposure.

Most important symptoms and effects, both acute and delayed

: In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/

consciousness. Victim may not be aware of asphyxiation.

Refer to section 11.

Indication of any immediate medical attention and special treatment needed

: None.

SECTION 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media : All known extinguishants can be used.

Special hazards arising from the substance or mixture

Specific hazards : Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products : Flammable gases.

Advice for fire-fighters

Specific methods : Coordinate fire measure to the surrounding fire. Cool endangered containers with water spray

jet from a protected position. Do not empty contaminated fire water into drains.

If possible, stop flow of product.

Special protective equipment for fire

fighters

: In confined space use self-contained breathing apparatus.

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SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Evacuate area.

Try to stop release.

Ensure adequate air ventilation.

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to

be safe.

Monitor concentration of released product.

Environmental precautions

: Try to stop release.

Methods and material for containment and cleaning up

: Ventilate area

Reference to other sections

: See also sections 8 and 13.

SECTION 7. Handling and storage

Precautions for safe handling

Safe use of the product : Use only properly specified equipment which is suitable for this product, its supply pressure

and temperature. Contact your gas supplier if in doubt.

Only experienced and properly instructed persons should handle gases under pressure. The product must be handled in accordance with good industrial hygiene and safety

procedures.

Do not smoke while handling product.

Ensure the complete gas system was (or is regularily) checked for leaks before use.

Safe handling of the gas receptacle

: Refer to supplier's container handling instructions.

Do not allow backfeed into the container. Protect cylinders from physical damage; do not drag, roll, slide or drop.

When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.)

designed to transport cylinders.

Leave valve protection caps in place until the container has been secured against either a wall

or bench or placed in a container stand and is ready for use.

If user experiences any difficulty operating cylinder valve discontinue use and contact

supplier.

Never attempt to repair or modify container valves or safety relief devices.

Damaged valves should be reported immediately to the supplier.

Keep container valve outlets clean and free from contaminates particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is

disconnected from equipment.

Close container valve after each use and when empty, even if still connected to equipment.

Never attempt to transfer gases from one cylinder/container to another.

Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the cylinder

contents.

Conditions for safe storage, including any incompatibilities

: Keep away from combustible materials.

Keep container below 50°C in a well ventilated place.

Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion.

Containers should be stored in the vertical position and properly secured to prevent toppling.

Stored containers should be periodically checked for general condition and leakage.

Container valve guards or caps should be in place.

Store containers in location free from fire risk and away from sources of heat and ignition.

Specific end use(s)

: None.

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SECTION 8. Exposure controls/personal protection

Control parameters

DNEL: Derived no effect level : None available. PNEC: Predicted no effect : None available. concentration

Exposure controls

Appropriate engineering controls : Oxygen detectors should be used when asphixiating gases may be released.

Provide adequate general and local exhaust ventilation.

Ensure exposure is below occupational exposure limits (where available). Systems under pressure shoud be regularily checked for leakages. Consider work permit system e.g. for maintenance activities.

Individual protection measures, e.g. personal protective equipment

Environmental exposure controls

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.

The following recommendations should be considered.

Wear safety glasses with side shields

Wear leather safety gloves and safety shoes when handling cylinders.

: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

- Physical state at 20°C / 101.3kPa · Gas - Colour : Colourless. Odour : Odourless.

Odour threshold : Odour threshold is subjective and inadequate to warn for overexposure.

: Not applicable for gas-mixtures. pH value

Molar mass [g/mol] : Not applicable for gases and gas-mixtures.

Melting point [°C] : Not applicable for gas-mixtures. Boiling point [°C] : Not applicable for gas-mixtures. Flash point [°C] : Not applicable for gas-mixtures. Evaporation rate (ether=1) : Not applicable for gas-mixtures. Flammability range [vol% in air] : Not applicable for gas-mixtures.

Vapour pressure [20°C] : Not applicable.

: Lighter or similar to air. Relative density, gas (air=1) Solubility in water [mg/l] : No reliable data available. Partition coefficient n-octanol/water : Not applicable for gas-mixtures.

Viscosity at 20°C [mPa.s] : Not applicable. **Explosive Properties** : Not applicable.

Other information

Other data : None.

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SECTION 10. Stability and reactivity

Reactivity

: No reactivity hazard other than the effects described in sub-sections below.

Chemical stability

: Stable under normal conditions.

Possibility of hazardous reactions

: None.

Conditions to avoid

: Avoid moisture in installation systems.

Incompatible materials

: May react violently with combustible materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

SECTION 11. Toxicological information

Information on toxicological effects

Acute toxicity : No known toxicological effects from this product.

Rat inhalation LC50 [ppm/4h] : No data available.

Skin corrosion/irritation : No known effects from this product. Serious eye damage/irritation : No known effects from this product. Respiratory or skin sensitisation : No known effects from this product. Carcinogenicity : No known effects from this product. Germ cell mutagenicity : No known effects from this product. : No known effects from this product. Toxic for reproduction : Fertility Toxic for reproduction: unborn child: No known effects from this product. STOT-single exposure : No known effects from this product. STOT-repeated exposure : No known effects from this product. **Aspiration hazard** : Not applicable for gases and gas-mixtures.

SECTION 12. Ecological information

Toxicity

: No data available.

Persistence - degradability

: No data available.

Bioaccumulative potential

: No data available.

Mobility in soil

: No data available.

Results of PBT and vPvB assessment

: No data available.

Other adverse effects

Effect on ozone layer : None.

Effect on the global warming : Contains greenhouse gas(es) not covered by 842/2006/EC

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SECTION 12. Ecological information (continued)

SECTION 13. Disposal considerations

Waste treatment methods

: Ensure that the emission levels from local regulations or operating permits are not exceeded.

Do not discharge into any place where its accumulation could be dangerous.

Refer to the code of practice of EIGA (Doc. 30/10 "Disposal of Gases, downloadable at http://

www.eiga.org) for more guidance on suitable disposal methods

Contact supplier if guidance is required.

Additional information

: None.

SECTION 14. Transport information

UN number : 1956

Labelling ADR, IMDG, IATA



: 2.2 : Non flammable, non toxic gas.

Land transport (ADR/RID)

H.I. nr : 20

UN proper shipping name : COMPRESSED GAS, N.O.S. (Nitrogen)

Transport hazard class(es) : 2
Classification code : 1 A
Packing Instruction(s) : P200

Tunnel Restriction : E : Passage forbidden through tunnels of category E.

Sea transport (IMDG)

Proper shipping name : COMPRESSED GAS, N.O.S. (Nitrogen)

Class : 2.2
Packing group : P200
Emergency Schedule (EmS) - Fire : F-C
Emergency Schedule (EmS) - Spillage : S-V
Packing instruction : P200

Air transport (ICAO-TI / IATA-DGR)

Proper shipping name (IATA) : COMPRESSED GAS, N.O.S. (Nitrogen)

Class : 2.2
Passenger and Cargo Aircraft : Allowed.
Packing instruction - Passenger and : 200

Cargo Aircraft
Cargo Aircraft only : Allowed.
Packing instruction - Cargo Aircraft : 200

only

Special precautions for user

: Avoid transport on vehicles where the load space is not separated from the driver's $% \left(1\right) =\left(1\right) \left(1\right) \left($

compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Before transporting product containers:
- Ensure there is adequate ventilation.

- Ensure that containers are firmly secured.

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SECTION 14. Transport information (continued)

- Ensure cylinder valve is closed and not leaking.

- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.

- Ensure valve protection device (where provided) is correctly fitted.

SECTION 15. Regulatory information

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

EU legislation

Seveso directive 96/82/EC

National legislation

: Not covered.

: Ensure all national/local regulations are observed.

Chemical Safety Assessment

: A CSA does not need to be carried out for this product.

SECTION 16. Other information

Indication of changes

Training advice

List of full text of H-statements in

section 3.

: Revised safety data sheet in accordance with commisssion regulation (EU) No 453/2010

: Receptacle under pressure.

: H280 - Contains gas under pressure; may explode if heated.

Further information : Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP / (

EC) 1999/45 DPD.

This Safety Data Sheet has been established in accordance with the applicable European

Union legislation.

DISCLAIMER OF LIABILITY : Before using this product in any new process or experiment, a thorough material compatibility

and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst

proper care has been taken in the preparation of this document, no liability for injury or

damage resulting from its use can be accepted.

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