

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name: Nitrogen Compressed

Chemical formula: N₂

Known uses: Not known

Om Air Special Gases
Khasra No.96, Khewat NO.352/640, Kila No.4,
Past 77/580, Moja Gaunchi
Faridabad Haryana India

Classification acc. to Regulation (EC) No 1272/2008/EC (CLP/GHS)

Press. Gas (Compressed gas) - Contains gas under pressure; may explode if heated.

Classification acc. to Directive 67/548/EEC & 1999/45/EC

Not classified as hazardous to health. Asphyxiant in high concentrations.

Risk advice to man and the environment

In high concentrations may cause asphyxiation. Compressed gas.

Label Elements

- Labelling Pictograms



-Signal word

Warning

- Hazard Statements

H280 Contains gas under pressure; may explode if heated.

EIGA-As Asphyxiant in high concentrations.

- Precautionary Statements

Precautionary Statement Prevention: None

Precautionary Statement Reaction: None

Precautionary Statement Storage
P403 Store in a well-ventilated place.

Precautionary Statement Disposal: None

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Substance.

Components/Impurities

Nitrogen, Compressed

CAS No: 7727-37-9

Index-Nr.:

EC No (from EINECS) : 231-783-

9 REACH Registration number:

Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.

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

3. FIRST AID MEASURES

Inhalation:

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

Ingestion:

Ingestion is not considered a potential route of exposure

4. FIRE FIGHTING MEASURES

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

Hazardous combustion products : None.

Suitable extinguishing media : All known extinguishants can be used.

Specific methods : If possible, stop flow of product. Move container away or cool with water from a protected position.

Special protective equipment for fire fighters : Normal firefighters' equipment consists of an appropriate SCBA (open-circuit positive pressure compressed air type) in combination with fire kit. Equipment and clothing to the following standards will provide a suitable level of protection for firefighters.

5. ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. EN 137 Respiratory protective devices — Self -contained open-circuit compressed air breathing apparatus with full face mask — Requirements, testing, marking.

Environmental precautions: Try to stop release.

Clean up methods: Ventilate area.

6. HANDLING AND STORAGE

Handling

Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Refer to supplier's handling instructions. Only experienced and properly instructed persons should handle gases under pressure. Protect containers from physical damage; do not drag, roll, slide or drop. 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 container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. 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. Ensure the complete gas system has been (or is regularly) checked for leaks before use. If user experiences any difficulty operating container valve discontinue use and contact supplier. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminants particularly oil and water. Never attempt to transfer gases from one container to another. Do not smoke while handling product. The substance must be handled in accordance with good industrial hygiene and safety procedures.

Storage

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. Cylinders should be stored in the vertical position and properly secured to prevent falling over. Stored containers should be periodically checked for general conditions 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. Keep away from ignition sources (including static discharges). Keep away from combustible materials. Secure cylinders to prevent them from falling. Observe "Technische Regeln Druckgase (TRG) 280 Ziffer 5"

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value

Value type	Value	Note
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Respiratory Protection: Not required

Hand Protection Advice: Wear working gloves and safety shoes while handling containers.

Personal protection: Ensure adequate ventilation.

8. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance/Colour: Colourless gas.

Odour: None.

Important information on environment, health and safety Molecular weight: 28 g/mol

Melting point: -210 °C

Boiling point: -196 °C

Critical temperature: -147 °C

Flash point: Not applicable for gases and gas mixtures.
Autoignition temperature: Not Applicable
Flammability range: Non flammable.
Relative density, gas (Air=1): 0,97
Relative density, liquid (Water=1): 0,8
Vapour Pressure 20 °C: Not applicable
Solubility mg/l water: 20 mg/l
Other data: None

9. STABILITY AND REACTIVITY

Stability and reactivity: Stable under normal conditions.

Hazardous decomposition products

Statements on decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10. TOXICOLOGICAL INFORMATION

General: No known toxicological effects from this product.

11. ECOLOGICAL INFORMATION

General: No ecological damage caused by this product.

12. DISPOSAL CONSIDERATIONS

General : Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required. Vent to atmosphere in a well ventilated place. Consult supplier for specific recommendations. Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods.

Gases in pressure containers excluding those, which are mentioned under 16 05 04

EWC Nr. 16 05 05

13. REGULATORY INFORMATION

Further national regulations :-

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work

Directive 94/9/EC on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

Directive 89/686/EEC on personal protective equipment

Council Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

Directive 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations

Directive 97/23/EC on the approximation of the laws of the Member States concerning pressure equipment.

Water pollution class

Not polluting to waters according to VwVwS from 27.07.2005

TA-Luft: Not classified according to TA-Luft.

14. OTHER INFORMATION

Ensure all national/local regulations are observed. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Advice

To prepare this document, help of various source of information available over electronic media has been taken for the sake of safety of the mankind and the environment. Whilst proper care has been taken during preparation of this document, no legal liability of any kind is accepted for any Injury or Damage resulting from the use of the product or information. We do not claim any type of ownership/correctness of this document or the information contained in it.