

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

Product name: Argon Compressed
NAME AND ADDRESS: Om Air Special Gases
Khasra No.96, Khewat N0.352/640, Kila No.4,
Faridabad Haryana India

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

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 Response: None

Precautionary Statement Storage

P403 Store in a well-ventilated place.

Precautionary Statement Disposal: None

Other hazards: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/ Mixture: Substance.

Substances:

Argon, Compressed

CAS No: 7440-37-1

Index-Nr.:

EC No (from EINECS): 231-147-0

REACH Registration number:

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

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

Mixtures: Not Applicable.

4. FIRST AID MEASURES

Description of first aid measures:

- First Aid General Information:

Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

- First Aid 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.

- First Aid Skin / Eye:

Adverse effects not expected from this product.

- First Aid 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.

Indication of any immediate medical attention and special treatment needed: None

5. FIRE FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media

All known extinguishants can be used.

Specific hazards arising from the substance or mixture Specific hazards: Exposure to fire may cause containers to rupture/explode. Non Flammable.

Hazardous combustion products: None.

Advice for fire-fighters:

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.

Guideline:

EN 469:2005: Protective clothing for firefighters. Performance requirements for protective clothing for firefighting., EN 15090 Footwear for firefighters., EN 443 Helmets for fire fighting in buildings and other structures., EN 659 Protective gloves for firefighters., EN 137 Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask — Requirements, testing, marking.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Evacuate area. Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. 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.

Methods and material for containment and cleaning up: Ventilate area.

Reference to other sections: See also sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities:

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"

Specific end use(s): None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No occupational exposure limit.

Exposure Controls:

Appropriate Engineering Controls:

Product to be handled in a closed system. Oxygen detectors should be used when asphyxiating gases may be released. The substance must be handled in accordance with good industrial hygiene and safety procedures. Consider work permit system e.g. for maintenance activities. Systems under pressure should be regularly checked for leakages. Provide adequate general or local ventilation.

Personal protective equipment:

Eye and face protection

Wear eye protection to EN 166 when using gases.

Skin protection

Hand protection

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

Other Protection:

Wear working gloves and safety shoes while handling containers. EN ISO 20345 Personal protective equipment - Safety footwear.

Respiratory Protection: Not required

Thermal hazards: Not required

Environmental Exposure Controls: Specific risk management measures are not required beyond good industrial hygiene and safety procedures. Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information Appearance/Colour: Colourless gas.

Odour: No odour warning properties.

Melting point: -189 °C

Boiling point: -186 °C

Flash point: Not applicable for gases and gas mixtures.

Flammability range: Non flammable.

Vapour Pressure 20 °C: Not Applicable.

Relative density, gas (Air=1): 1,38, Heavier than air.

Solubility in water: 61 mg/l

Autoignition temperature: Not applicable.

Explosive Properties:

Explosive acc. EU legislation: Not explosive.

Explosive acc. transp. reg.: Not explosive.

Oxidising Properties: Not applicable.

Molecular weight: 40 g/mol

Sublimation point: -122,3 °C

Critical temperature: 31 °C

Relative density, liquid (Water=1): 1,4

Other Information: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10. STABILITY AND REACTIVITY

Reactivity: Unreactive under normal conditions.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None.

Conditions to avoid: None.

Incompatible materials: No reaction with any common materials in dry or wet conditions.

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

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects General: No known toxicological effects from this product.

12. ECOLOGICAL INFORMATION

Toxicity: No ecological damage caused by this product.

Persistence and degradability: Not applicable.

Bioaccumulative potential: Not applicable.

Mobility in soil: The substance is a gas, not applicable.

Results of PBT and vPvB assessment: Not classified as PBT or vPvB.

Other adverse effects: Not Applicable.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

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

14. REGULATORY INFORMATION

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

Seveso Directive 96/82/EC: Not covered

Other regulations

Regulations for the prevention of industrial accidents Pressure Vessel Regulation
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 labelling of dangerous preparations Directive 97/23/EC on the approximation of the laws of the Member States concerning pressure equipment.

Further national regulations

Not classified according to TA-Luft.

Water pollution class

Not polluting to waters according to VwVwS from 27.07.2005

Chemical safety assessment: A CSA does not need to be carried out for this product

15. OTHER INFORMATION

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

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.