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

- **Informations to product No. 9001**
- **Product name:**

Inertgas Argon
 Druckgasflasche / 1l = 140,7g

- **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
 Herderstr. 31
 40721 Hilden
 Tel.: 02103/4994-0
 Fax: 02103/32360
 e-mail: info@caelo.de

- **Emergency telephone:**

Giftinformationszentrum Mainz
 Langenbeckstr. 1, 55131 Mainz
 Tel.: 06131/19240

- **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

- **Application of the substance / mixture:**

Protection gas for pharmaceutical formulations.

2 Hazards identification

- **GHS-Labeling Elements:**



- **Signal word:** Warning

- **H-Phrases:**

H280 Contains gas under pressure; may explode if heated

- **P-Phrases:**

P403 Store in a well ventilated place

Press. Gas

3 Composition / information on ingredients


- **Chemical characterization:**

CAS-No. Substance name

7440-37-1 Argon

- **EINECS-No.:** 231-147-0

· **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.

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· INCI-Name: -

4 First aid measures

- **after eye contact:** Not relevant
- **after swallowing:** Not relevant
- **after inhalation:** High concentrations may cause asphyxia.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Not combustible.
- **Additional information:** Containers may explode after heating.

6 Accidental release measures

- **Personal protective measures:** No special measures required.
- **Environmental protective measures:** No special measures required.
- **Methods for cleaning:** No special measures required.

7 Handling and storage


- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- **Advices on common storage:** Keep away from heat sources.

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Not required. Avoid inhalation of bigger quantities.
- **Hand protection:** Not required.
- **Eye protection:** Not required.

9 Physical and chemical properties

- **Form:** gaseous
- **Colour:** colourless
- **Odour:** odourless
- **Melting point / melting range:** -189,3 °C
- **Boiling point / boiling range:** -186 °C
- **Flammability (solid, vapours):** The product is not flammable.
- **Density:** (20 °C, 1013 hPa) 1,784 kg/m³
- **Solubility in / Miscibility with**

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- **Water:** not readily soluble
- **pH-range:** neutral

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition possible.
- **Hazardous reactions:** none.
- **Hazardous decomposition products:** None.

11 Toxicological information

- **Acute toxicity:** Not toxic.
- **Primary irritating effect:** Not irritant.
- **Additional toxicological informations:** Asphyxia after inhalation in high concentrations.

12 Ecological information


- **Ecotoxic effects:**
In case of appropriate handling and usage the product does not cause ecological problems.
- **Water hazard class:** nwg (VwVwS): not hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:**
Gas cartridges, small, containing gas, without release device, not refillable
- **Class:** 2
- **UN-number:** 2037
- **Packing group:** -
- **Classification code:** 5A
- **Limited quantities (Table 3.4.6. ADR):** -
- **Hazard classification number:** 20
- **Special provisions (Chapter 3.3 ADR):** 191, 303, 344
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-D, S-U
- **Properties:** -

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15 Regulatory information

- **GHS-Labeling Elements:** GHS04
- **Signal word:** Warning
- **H-Phrases:**
H280 Contains gas under pressure; may explode if heated
- **P-Phrases:**
P403 Store in a well ventilated place
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 2A

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.