

Reference No AR20121025V2

Date 25-10-2012

MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION & THE COMPANY NAME

Product name: Argon

Product code: 04025 and 02656

Use of substance / preparation: Application of semi-professional welding and hobby

Company name:

SIP (Industrial Products) Ltd
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LE12 9NH
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under (EC) Regulation no. 1272/2008: GAS UNDER PRESSION – PRESSURIZED GAS – WARNING
Classification under Directive no. 67/548/CEE: Product not classified among the dangerous ones

2.2 Label elements

GHS Danger symbols:



Attention:
Danger information
Suggestion

Warning

H280:

It contains gas under pressure; may explode if heated

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Advice – Reaction

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Advice – Conservation

P410 + P403:

Gas-based containers cannot be directly exposed to sunshine rays.
Ensure proper ventilation (natural or forced)

Danger symbols under the Directive no.67/578/CEE

“R” Phrases

None

“S” Phrases

None

ADR labels for transport



3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

| IUPAC name | Substance number | CAS number | EINECS number | Concentration |
|------------|------------------|------------|---------------|---------------|
| Argon | -- | 7440-37-1 | 231-147-0 | 99,99% |

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

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4. FIRST AID MEASURES

4.1 Description of first aid measures

Immediately seek medical advice

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Not expected to present a significant skin hazard under anticipated conditions of normal use.

Eyes contact: Not expected to present a significant eyes hazard under anticipated conditions of normal use.

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.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

All known fire extinguishers can be used.

5.2 Special hazards arising from the substance or mixture.

Fire exposure can cause containers to rupture/explode

5.3 Special protective equipment for fire fighters

In confined space use self-contained breathing apparatus

5.4 Advice for fire-fighters

Move away from the container and cool with water from a protected position. If possible, stop flow of products.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Try to stop release. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous.

6.3 Methods and material for containment and cleaning up

Ventilated area.

7. HANDLING AND STORAGE

7.1 HANDLING:

Do not eat, drink and/or smoke in the working areas or plants. For container handling, use proper personal protective equipment such as safety shoes and gloves. Do not allow back feed into the container. Suck back of water into the container must be prevented. Use only properly specified equipment which are suitable for this product. Open slowly the valve to avoid pressure blows. Avoid the direct contact of the product. Handle carefully the contains, thus avoiding violent collisions between them or against other surfaces, as well as falls and other mechanical strains susceptible to damage their integrity/resistance. Contact your supplier if in doubt.

7.2 STORAGE:

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE THRESHOLD VALUES

Not available

8.2 EXPOSURE CONTROLS

Avoid under-oxygenated atmospheres ($O_2 < 18\%$). In high concentrations may cause asphyxiation. Ensure suitable ventilation. Ensure skin and eyes protection appropriate to the conditions of use.

Skin/face protection: Use safety glasses and face shield in accordance with EN 166

Hand protection: Use gauntlet according to EN 388

Respiratory protection: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of release, please refer to the point 6.1

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|-------------------------------|-----------------------------|
| Molecular weight | 40 g/mole |
| Melting point | -189°C (1,013 bar) |
| Boiling point | -186°C (1,013 bar) |
| Critical temperature | -122°C |
| Relative density, gas (air=1) | 1,4 |
| Solubility in water (mg/l) | 61 (15 °C; 1,013 bar) |
| Colour | Colourless |
| Odour | No odour warning properties |
| Auto-ignition temperature | Not applicable |
| Other data | Not flammable |

9.2 Other information

Gas/vapour heavier than air. May accumulate in confined areas, particularly at ground or below ground level.

10. STABILITY AND REACTIVITY

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|---|--|
| 10.1 Reactivity : | Inert gas |
| 10.2 Chemical stability : | Stable under normal conditions |
| 10.3 Possibility of hazardous reactions : | No hazardous reaction expected |
| 10.4 Conditions to avoid : | Avoid sources of heat/ sparks/ flames and hot surfaces; No smoking |
| 10.5 Incompatible materials : | None |
| 10.6 Hazardous decomposition products | None |

11. TOXICOLOGICAL INFORMATION

No known toxicological effects.

12. ECOLOGICAL INFORMATION

| | |
|---|---|
| 12.1 Toxicity | No known ecological damage caused by this product |
| 12.2 Persistence and degradability | No data available |
| 12.3 Bi-accumulative potential | No data available |
| 12.4 Mobility in soil | No data available |
| 12.5 Results of PBT and vPvB assessment | It is not requested a chemical safety report |
| 12.6 Other adverse effects | No data available |

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The waste treatment methods have to be verified every time with reference to the waste composition, National and EC standards in force. The handling and precautions in case of accidental waste, please refer to the a/m points 6 and 7. Actions or precautions must be verified accordingly to the waste composition.

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14. TRANSPORT INFORMATION

- 14.1 UN Number : UN 1006
14.2 UN proper shipping name : ARGON, COMPRESSED
14.3 Transport hazard class : 2
14.3 Label: 2.2
14.4 Packing group : Not applicable
- 14.5 Sea transport :
EMS: F-C, S-V
Proper Shipping name: ARGON, COMPRESSED
- 14.6 Air transport:
Cargo : Packing instruction: 200
Max. quantity: 150kg
Passengers : Packing instruction: 200
Max. quantity: 75kg
ERG Code: 2L
- 14.7 Environmental hazards : No available data
14.8 Special precautions for users : Avoid transports on vehicle where the loading area is not separated from the cabin. Assure that the drivers knows the potential dangers of the loading and he is able to operate in case of emergency.
- 14.9 Transport in bulk according to Annex II of MARPOL 73/78 and IB code
Not applicable

15. CLP REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Ensure all National/local regulations are observed. Seveso regulation 96/82/EC: not covered.

16. OTHER INFORMATION

GENERAL BIBLIOGRAPHY:

1. (EC) Regulation no. 1907/2006 of the European Parliament (REACH)
2. (EC) Regulation no. 1272/2008 of the European Parliament (CLP)
3. ESIS : European chemical Substances Information System

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