

SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: SPANGAS ISOBUTANE 2 PCT OR LESS IN AIR
- Product Part Number: 620112 - 619932

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

- Use of the substance/mixture: Span gas

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
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- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
- Other suppliers SEE SECTION 16!!!
- For quotations contact your local Customer Services
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- Responsible Person: Product HSE Manager,
- Email: Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Telephone: Tel.: +31 10 4877775

1.4 Emergency telephone number

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
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- International 24hrs Emergency NCEC: +44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- Not hazardous according to current The Dangerous Substances Directive (67/548/EEC)
- This product is not classified as hazardous according to Directive 1999/45/EEC
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- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Signal Word: Warning
- Symbols: GHS04
- Contains gas under pressure; may explode if heated (H280).

2.2 Label elements



- Signal Word: Warning
- Pressurized container
-

SECTION 2 Hazards identification (....)

Contains:

- ISOBUTANE - AIR
-
- Hazard phrases
Contains gas under pressure; may explode if heated (H280).
- Precautionary Phrases
Store in a well-ventilated place (P403).

2.3 Other hazards

- Not applicable
 - Not a PBT according to REACH Annex XIII
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SECTION 3 Composition/information on ingredients**3.1 Mixtures**

- isobutane
Concentration: $\leq 2\%$
CAS Number: 75-28-5
EC Number: 200-857-2
R/H Phrases: H220, H280, R12
Symbols: GHS02, GHS04, F+
Categories: Flam. Gas 1 Press. Gas
 - air
Concentration: > 97
CAS Number: 132259-10-0
EC Number: Not applicable
R/H Phrases: H280
Symbols: GHS04
Categories: Press. Gas
-

SECTION 4 First aid measures**4.1 Description of first aid measures**

- Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P341).
- Contact with eyes: If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes, Irrigate eyes thoroughly whilst lifting eyelids, When in doubt or symptoms persist, seek medical attention
- Contact with skin: Not applicable
- Ingestion: Not applicable

4.2 Most important symptoms and effects, both acute and delayed

- Aspiration hazard
- In cases of severe exposure, dizziness, confusion, headache or stupor may develop

4.3 Indication of any immediate medical attention and special treatment needed

- No information available
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SECTION 5 Fire-fighting measures**5.1 Extinguishing media**

- In case of fire use water, foam, carbon dioxide or dry agent (S43)
- In case of fire: use water for extinction (P370+P378)
- In case of fire: use water fog for extinction (P370+P378)

5.2 Special hazards arising from the substance or mixture

- Inform Fire Brigade of potential danger of exploding and rocketing cylinders
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SECTION 5 Fire-fighting measures (....)

5.3 Advice for firefighters

- Not flammable
 - Keep container(s) exposed to fire cool, by spraying with water
 - Inform Fire Brigade of potential danger of exploding and rocketing cylinders
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SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off source of leak if safe to do so
- In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus

6.2 Environmental Precautions

- No special precautions are required for this product

6.3 Methods and material for containment and cleaning up

- Shut off source of leak if safe to do so
- Allow product to evaporate
- Ventilate area

6.4 Reference to other sections

- See Section 13
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SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Use proper hoisting equipment

7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 deg C

7.3 Specific end use(s)

- Contact supplier for further information
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SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- No exposure limits have been set for this substance

8.2 Exposure controls

- No special requirements

8.3 Occupational exposure controls



- In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus
 - Wear safety boots when handling cylinders.
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SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
 - Appearance: Compressed gas
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SECTION 9 Physical and chemical properties (....)

pH - not applicable

- Vapour pressure - not known
- Vapour density (air = 1) 1.01

9.2 Other information

- No information available
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SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid overheating
- Keep away from naked flames, incandescent or hot surfaces

10.5 Incompatible materials

- None

10.6 Hazardous Decomposition Products

- Decomposition products may include toxic and irritant fumes
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- Non-toxic

11.2 Contact with eyes

- In cases of severe exposure, redness and irritation may develop

11.3 Contact with skin

- In cases of severe exposure, irritation may develop

11.4 Ingestion

- Not regarded as a potential route of exposure.

11.5 Inhalation

- In cases of severe exposure, dizziness, confusion, headache or stupor may develop
 - Asphyxiant
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SECTION 12 Ecological information

12.1 Toxicity

- On available data, substance is not harmful to aquatic life

12.2 Persistence and degradability

- Not applicable

12.3 Bioaccumulation Potential

- Not applicable

12.4 Mobility in soil

- This substance is volatile
- Insoluble in water

12.5 Results of PBT and vPvB assessment

SECTION 12 Ecological information (....)

- Not a PBT according to REACH Annex XIII
- 12.6 Other Adverse Effects
- Presents no hazard to the environment
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SECTION 13 Disposal considerations

- 13.1 Waste treatment methods
- Disposal should be in accordance with manufacturer's instructions
 - Disposal should be in accordance with local, state or national legislation
- 13.2 Classification
- EU Waste class: -
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SECTION 14 Transport information



- 14.1 UN
- UN No.: UN1956
 - Proper Shipping Name: COMPRESSED GAS, N.O.S. (isobutane in air mixture)
 - Hazard Class: 2.2
 - Packing Group: Not applicable
- 14.2 Environmental hazards
- Not applicable
- 14.3 Special precautions for user
- Gas cylinders must be equipped with valve protection caps during transport.
- 14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not applicable
- 14.5 Road/Rail (ADR/RID)
- ADR UN No.: UN1956
 - Proper Shipping Name: COMPRESSED GAS, N.O.S. (isobutane in air mixture)
 - ADR Hazard Class: 2.2
 - ADR Packing Group: Not applicable
- 14.6 Sea (IMDG)
- IMDG UN No.: UN1956
 - Proper Shipping Name: COMPRESSED GAS, N.O.S. (isobutane in air mixture)
 - IMDG Hazard Class: 2.2
 - IMDG Pack Group.: Not applicable
 - IMDG EmS: F-C, S-V
- 14.7 Air (ICAO/IATA)
- ICAO UN No.: UN1956
 - Proper Shipping Name: COMPRESSED GAS, N.O.S. (isobutane in air mixture)
 - ICAO Hazard Class: 2.2
 - ICAO Packing Group: Not applicable
- 14.8 DOT / CFR (US Department of Transportation)
- Identification Number: UN1956
 - DOT Proper Shipping Name: COMPRESSED GAS, N.O.S. (isobutane in air mixture)
 - DOT Labels: 2.2
 - Product RQ (lbs): Not applicable

SECTION 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Refer to The Dangerous Substances Directive (67/548/EEC)
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

15.2 Chemical Safety Assessment

- None
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated. R12: Extremely Flammable.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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