

SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: SPANGAS BUTYLENE 1 PCT OR LESS IN AIR
- SPANGAS BUTYLENE $\leq 1\%$ IN AIR
- Product Part Number: 589036 - 712133

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
-
- 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
-
- 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****
-
- 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
-
- 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:
- BUTYLENE - 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

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- Air
Concentration: ≥99%
CAS Number: 7727-37-9
EC Number: 231-783-9
R/H Phrases: H280
Symbols: -
Categories:
- Butylene
Concentration: ≤1
CAS Number: 25167-67-3
EC Number: -
R/H Phrases: H280 - H220
Symbols: GHS04, GHS02
Categories: Flam. Gas 1, Liq. Gas

SECTION 4 First aid measures

4.1 Description of first aid measures

- Inhalation: Asphyxiant, If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P341)., Remove patient to fresh air
- 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

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Keep container(s) exposed to fire cool, by spraying with water

5.2 Special hazards arising from the substance or mixture

- Inform Fire Brigade of potential danger of exploding and rocketing cylinders

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

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

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

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.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Compressed gas
-

SECTION 9 Physical and chemical properties (....)

pH - not applicable

- Vapour pressure - not known
- Insoluble in water
- Density 20 kg/m³
- Not flammable

9.2 Other information

- No information available
-

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
-

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
-

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
-

SECTION 12 Ecological information (....)

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- Presents no hazard to the environment
-

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: -
-

SECTION 14 Transport information



14.1 UN

- UN No.: UN1956
- Proper Shipping Name: COMPRESSED GAS, N.O.S. (Butylene 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. (Butylene 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. (Butylene 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. (Butylene 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. (Butylene 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
-

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.

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

Wilhelmsen Ships Service Level 17, 636 St Kilda Road Melbourne Vic 3004 AUSTRALIA

Tel: +61 3 9630 0900 Emergency 24hrs: +61 3 9630 0998

Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States Telephone daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268

Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California, United States Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC. 9400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

Wilhelmsen Ships Service Ltd. Unit 3A NewtonsCourt Crossways DA2 6QL Dartford, Kent United Kingdom Tel (+44) 1322 282 412 Fax (+44) 1322 284 774

Wilhelmsen Ships Service Ltda Rua Bispo Lacerda nos.61/67 Del Catilho BR 21051120 Rio de Janeiro Brazil Tel (+55) 21 25 82 8000 Fax (+55) 21 25 82 8001

Wilhelmsen Ships Service (S) Pte Ltd 186 Pandan Loop Singapore 128376 Tel (+65) 6395 4545

Wilhelmsen Ships Service Co., Ltd 12-31 Torihama-cho Kanazawa-ku Yokohama-shi JP-236 0002, Japan Tel (+81) 45 775 0012 Fax (+81) 45 775 0070

Wilhelmsen Ships Service Hellas SA 100, D. Moutsopoulou & Serifou str GR-185 41 Piraeus Greece

Tel (+ 30) 210 4239100 Fax (+ 30) 210 4212480

Wilhelmsen Ships Service AS U.A.E . Fl 24 Executive Heights, Tecom C Sheikh Zayed Road (East) Dubai United Arab Emirates Tel (+971) 4 382 3888

Wilhelmsen Ships Service AS, Willem Barentszstraat 50 3165 AB Rotterdam-Albrandswaard, the Netherlands. Tel (+31) 10 4877 777

