

SDS for EW-M1
Butane Fuel Catridge/3.8 oz
Global Market Connections,Ltd.


Keen
WORLD
MARKETING

Keen (World Marketing) Limited
 1 Northbrook Street
 Newbury
 Berkshire RG14 1DJ, England
 Telephone: 44 (0) 1353 34600
 Fax: 44 (0) 1353 34601
 E-mail: info@keen-newport.com

SAFETY DATA SHEET
Lucienne Gas Refill

Issue Date: 15.04.2013
 Last revised date: 28.05.2015

Version: 1.0

SDS No.: 000010021860(15)
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product name: Lucienne Butane Gas Refill

Trade name: Propel 40

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

Identified uses: Industrial and professional. Perform risk assessment prior to use.
 Aerosol propellant.

Uses advised against Consumer use.

1.3 Details of the supplier of the safety data sheet

Supplier

Keen (World Marketing) Ltd
 1 Northbrook Street, Newbury
 Berkshire RG14 1DJ

Telephone: 0044 1635 34600

E-mail: info@keen-newport.com

1.4 Emergency telephone number: 0044 1635 34600

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended.

F+, R12

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards

Flammable gas

Category 1

H220: Extremely flammable gas.

Gases under pressure

Liquefied gas

H280: Contains gas under pressure; may explode if heated.

2.2 Label Elements

Classification according to Directive 67/548/EEC or 1999/45/EC as amended



Signal Words:

Danger

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Hazard Statement(s): H220: Extremely flammable gas.
 H280: Contains gas under pressure; may explode if heated.

Precautionary Statement

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response: P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381: Eliminate all ignition sources if safe to do so.

Storage: P403: Store in a well-ventilated place.

Disposal: None.

2.3 Other hazards: Contact with evaporating liquid may cause frostbite or freezing of skin.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Chemical name | Chemical formula | Concentration | CAS No. | EC No. | REACH Registration No. | Notes |
|---------------|------------------|---------------|----------|-----------|------------------------|-------|
| Butane | C4H10 | 54 % | 106-97-8 | 203-448-7 | 01-2119474691-32 | # |
| Isobutane | C4H10 | 24 % | 75-28-5 | 200-857-2 | 01-2119485395-27 | |
| propane | C3H8 | 22 % | 74-98-6 | 200-827-9 | 01-2119486944-21 | |

The concentrations of the components in the SDS header, product name on page one and in section 3.2 are in mol due to regulatory requirements. All concentrations are nominal.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

| Chemical name | Classification | Notes |
|---------------|--|-------|
| Butane | DSD: F+, R12 | |
| | CLP: Flam. Gas 1; H220, Press. Gas Liquef. Gas; H280 | |
| Isobutane | DSD: F+, R12 | |
| | CLP: Flam. Gas 1; H220, Press. Gas Liquef. Gas; H280 | |
| propane | DSD: F+, R12 | |
| | CLP: Flam. Gas 1; H220, Press. Gas Liquef. Gas; H280 | |

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements is displayed in section 16.

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SECTION 4: First Aid Measures

- General:** 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.
- 4.1 Description of first aid measures**
- 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.
- Eye contact:** Rinse the eye with water immediately. Remove contact lenses, if present and easy to do. Continue rinsing. Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes.
- Skin Contact:** Contact with evaporating liquid may cause frostbite or freezing of skin.
- Ingestion:** Ingestion is not considered a potential route of exposure.
- 4.2 Most important symptoms and effects, both acute and delayed:** Respiratory arrest. Contact with liquefied gas can cause damage (frostbite) due to rapid evaporative cooling. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
- 4.3 Indication of any immediate medical attention and special treatment needed**
- Hazards:** Respiratory arrest. Contact with liquefied gas can cause damage (frostbite) due to rapid evaporative cooling.
- Treatment:** Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.

SECTION 5: Firefighting Measures

- General Fire Hazards:** Heat may cause the containers to explode.
- 5.1 Extinguishing media**
- Suitable extinguishing media:** Water Spray or Fog, Dry powder, Foam.
- Unsuitable extinguishing media:** Carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture:** Incomplete combustion may form carbon monoxide

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5.3 Advice for firefighters

Special fire fighting procedures:

In case of fire: Stop leak if safe to do so. Do not extinguish flames at leak because possibility of uncontrolled explosive re-ignition exists. Continue water spray from protected position until container stays cool. Use extinguishants to contain the fire. Isolate the source of the fire or let it burn out.

Special protective equipment for firefighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Guideline: EN 469 Protective clothing for firefighters. Performance requirements for protective clothing for firefighting. EN 15090 Footwear for firefighters. EN 659 Protective gloves for firefighters. EN 443 Helmets for fire fighting in buildings and other structures. EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate area. Provide adequate ventilation. Consider the risk of potentially explosive atmospheres. Eliminate all ignition sources if safe to do so. Monitor the concentration of the released product. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up:

Provide adequate ventilation. Eliminate sources of ignition.

6.4 Reference to other sections:

Refer to sections 8 and 13.

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SECTION 7: Handling and Storage:

7.1 Precautions for safe handling:

Only experienced and properly instructed persons should handle gases under pressure. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service. Purge air from system before introducing gas. Containers, which contain or have contained flammable or explosive substances, must not be inerted with liquid carbon dioxide. Assess the risk of a potentially explosive atmosphere and the need for suitable equipment i.e. explosion-proof. Take precautionary measures against static discharges. Keep away from ignition sources (including static discharges). Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Use only non-sparking tools. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Ensure the complete system has been (or is regularly) checked for leaks before use. Protect containers from physical damage; do not drag, roll, slide or drop. 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. Secure cylinders in an upright position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with local/regional/national/international regulations. Never use direct flame or electrical heating devices to raise the pressure of a container. 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. Damaged valves should be reported immediately to the 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. 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. If user experiences any difficulty operating container valve discontinue use and contact supplier. Never attempt to transfer gases from one container to another. Container valve guards or caps should be in place.

7.2 Conditions for safe storage, including any incompatibilities:

All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere. Segregate from oxidant gases and other oxidants being stored. Containers should not be stored in conditions likely to encourage corrosion. 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 combustible material.

7.3 Specific end use(s):

None.

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SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Occupational Exposure Limits

| Chemical name | type | Exposure Limit Values | Source |
|---------------|------|-----------------------|--|
| Butane | TWA | 600 ppm mg/m3 | 1,450 UK, EH40 Workplace Exposure Limits (WELs) (12 2011) |
| | STEL | 750 ppm mg/m3 | 1,810 UK, EH40 Workplace Exposure Limits (WELs) (12 2011) |

8.2 Exposure controls

Appropriate engineering controls:

Consider a work permit system e.g. for maintenance activities. Ensure adequate air ventilation. Provide adequate general and local exhaust ventilation. Keep concentrations well below lower explosion limits. Gas detectors should be used when quantities of flammable gases or vapours may be released. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Systems under pressure should be regularly checked for leakages. Product to be handled in a closed system. Use only permanent leak tight installations (e.g. welded pipes). Take precautionary measures against static discharges.

Individual protection measures, such as personal protective equipment

General information:

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered. Keep self contained breathing apparatus readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment. Do not eat, drink or smoke when using the product.

Eye/face protection:

Safety eyewear, goggles or face-shield to EN166 should be used to avoid exposure to liquid splashes. Wear eye protection to EN 166 when using gases.
Guideline: EN 166 Personal Eye Protection.

Skin protection

Hand Protection:

Wear working gloves while handling containers
Guideline: EN 388 Protective gloves against mechanical risks.

Body protection:

Wear fire/flame resistant/retardant clothing.
Guideline: ISO/TR 2801:2007 Clothing for protection against heat and flame – General recommendations for selection, care and use of protective clothing.

Other:

Wear safety shoes while handling containers
Guideline: ISO 20345 Personal protective equipment - Safety footwear.

Respiratory Protection:

Not required.

Thermal hazards:

No precautionary measures are necessary.

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Hygiene measures: Specific risk management measures are not required beyond good industrial hygiene and safety procedures. Do not eat, drink or smoke when using the product.

Environmental exposure controls: For waste disposal, see section 13.

SECTION 9: Physical And Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|---|---|
| Physical state: | Gas |
| Form: | Liquefied gas |
| Colour: | C4H10: Colourless C3H8: Colourless C4H10: Colourless, Colourless |
| Odour: | C4H10: Gasoline-like or natural gas odour C3H8: Odourless C4H10: Slight odour, Gasoline-like or natural gas odour |
| Odour Threshold: | Odour threshold is subjective and is inadequate to warn of over exposure. |
| pH: | not applicable. |
| Melting Point: | No data available. |
| Boiling Point: | -11 °C |
| Sublimation Point: | not applicable. |
| Critical Temp. (°C): | No data available. |
| Flash Point: | Not applicable to gases and gas mixtures. |
| Evaporation Rate: | Not applicable to gases and gas mixtures. |
| Flammability (solid, gas): | Flammable Gas |
| Flammability limit - upper (%): | No data available. |
| Flammability limit - lower(%): | No data available. |
| Vapour pressure: | 2.73 bar (20 °C) 2.62 - 2.90 bar (70 °F) |
| Vapour density (air=1): | 1.94 (calculated) (15 °C) |
| Relative density: | 0.559 (Reference material: Water) |
| Solubility(ies) | |
| Solubility in Water: | No data available. |
| Partition coefficient (n-octanol/water): | Not known. |
| Autoignition Temperature: | not applicable. |
| Decomposition Temperature: | Not known. |
| Viscosity | |
| Kinematic viscosity: | No data available. |
| Dynamic viscosity: | No data available. |
| Explosive properties: | Not applicable. |
| Oxidising Properties: | not applicable. |

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

SECTION 10: Stability and Reactivity

- 10.1 Reactivity:** No reactivity hazard other than the effects described in sub-section below.
- 10.2 Chemical Stability:** Stable under normal conditions.
- 10.3 Possibility of Hazardous Reactions:** Can form a potentially explosive atmosphere in air. May react violently with oxidants.
- 10.4 Conditions to Avoid:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 10.5 Incompatible Materials:** Air and oxidisers. For material compatibility see latest version of ISO-11114.
- 10.6 Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

General information: None.

11.1 Information on toxicological effects

Acute toxicity - Oral Product Based on available data, the classification criteria are not met.

Acute toxicity - Dermal Product Based on available data, the classification criteria are not met.

Acute toxicity - Inhalation Product

Component information
Butane

LC 50 (Rat, 4 h): 658 mg/l

Isobutane

LC 50 (Rat, 15 min): 570000 ppm

Repeated dose toxicity
Component information
Isobutane

NOAEL (Rat (Female, Male), Inhalation): 21,394 mg/m³

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Skin Corrosion/Irritation

Product Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation

Product Based on available data, the classification criteria are not met.

Component information

Butane Not irritating

Respiratory or Skin Sensitisation

Product Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Product Based on available data, the classification criteria are not met.

Carcinogenicity

Product Based on available data, the classification criteria are not met.

Reproductive toxicity

Product Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product Based on available data, the classification criteria are not met.

Aspiration Hazard

Product Not applicable to gases and gas mixtures..

SECTION 12: Ecological Information

12.1 Toxicity

Acute toxicity

Product No ecological damage caused by this product.

Acute toxicity - Fish

Component information

Isobutane LC50 (Various, 96 h): 27.98 mg/l (QSAR) Remarks: QSAR

propane LC50 (Fish, 96 h): 49.9 mg/l

Acute toxicity - Aquatic Invertebrates

Component information

propane EC50 (Water flea (Daphnia magna), 48 h): 27.1 mg/l

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Toxicity to microorganisms

Component information

propane

EC50 (Alga, 72 h): 11.9 mg/l

12.2 Persistence and Degradability

Product

Not applicable to gases and gas mixtures.

12.3 Bioaccumulative Potential

Product

The product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment.

12.4 Mobility in Soil

Product

Because of its high volatility, the product is unlikely to cause ground or water pollution.

12.5 Results of PBT and vPvB

assessment

Product

Not classified as PBT or vPvB.

12.6 Other Adverse Effects:

Global Warming Potential

Global warming potential: 3.6

Contains greenhouse gas(es) not covered by 842/2006/EC. Contains greenhouse gas(es). When discharged in large quantities may contribute to the greenhouse effect.

Component information

Butane

Global warming potential: 4

Isobutane

Global warming potential: 3

propane

Global warming potential: 3

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

General information:

Do not discharge into any place where its accumulation could be dangerous. Consult supplier for specific recommendations. Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor.

Disposal methods:

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. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state, or local laws.

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European Waste Codes

Container:

16 05 04*: gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport Information

ADR

14.1 UN Number: UN 1950
14.2 UN Proper Shipping Name: Aerosol, flammable
14.3 Transport Hazard Class(es)
Class: 2
Label(s): 2.1
Hazard No. (ADR): 23
Tunnel restriction code: (B/D)
Emergency Action Code: 2YE
14.4 Packing Group: -
14.5 Environmental hazards: not applicable
14.6 Special precautions for user: -

RID

14.1 UN Number: UN 1950
14.2 UN Proper Shipping Name: Aerosol, flammable
14.3 Transport Hazard Class(es)
Class: 2
Label(s): 2.1
14.4 Packing Group: -
14.5 Environmental hazards: not applicable
14.6 Special precautions for user: -

IMDG

14.1 UN Number: UN 1950
14.2 UN Proper Shipping Name: Aerosol, flammable
14.3 Transport Hazard Class(es)
Class: 2.1
Label(s): 2.1
EmS No.: F-D, S-U
14.3 Packing Group: -
14.5 Environmental hazards: not applicable
14.6 Special precautions for user: -

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IATA

14.1 UN Number: UN 1950
14.2 Proper Shipping Name: Aerosol, flammable
14.3 Transport Hazard Class(es):
Class: 2.1
Label(s): 2.1
14.4 Packing Group: -
14.5 Environmental hazards: not applicable
14.6 Special precautions for user: -
Other information
Passenger and cargo aircraft: Forbidden.
Cargo aircraft only: Allowed.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

Additional Identification: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured. Ensure that the container valve is closed and not leaking. Container valve guards or caps should be in place. Ensure adequate air ventilation.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

| Chemical name | CAS-No. | Concentration |
|---------------|----------|---------------|
| Butane | 106-97-8 | 50 - 60 % |
| propane | 74-98-6 | 20 - 30 % |

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:

| Chemical name | CAS-No. | Concentration |
|---------------|---------|---------------|
| propane | 74-98-6 | 20 - 30 % |

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

| Chemical name | CAS-No. | Concentration |
|---------------|---------|---------------|
| propane | 74-98-6 | 20 - 30 % |

Directive 96/82/EC (Seveso II): on the control of major accident hazards involving dangerous substances:

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| Chemical name | CAS-No. | Concentration |
|---------------|----------|---------------|
| Butane | 106-97-8 | 50 - 60 % |
| Isobutane | 75-28-5 | 20 - 30 % |
| propane | 74-98-6 | 20 - 30 % |

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

| Chemical name | CAS-No. | Concentration |
|---------------|----------|---------------|
| Butane | 106-97-8 | 50 - 60 % |
| Isobutane | 75-28-5 | 20 - 30 % |
| propane | 74-98-6 | 20 - 30 % |

National Regulations

Dangerous Substances and Explosive Atmospheres Regulations (DSEAR 2002 No. 2776). Management of Health and Safety at Work Regulations (1999 No. 3242). The Regulatory Reform (Fire Safety) Order 2005 (2005 No. 1541). Control of Substances Hazardous to Health Regulations (COSHH, 2002 No. 2677). Provision and Use of Work Equipment Regulations (PUWER, 1998 No. 2306). Personal Protective Equipment Regulations (1992 No. 2966). Control of Major Accident Hazards Regulations (COMAH, 2015 No. 483). Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations (EPS, 1996 No. 192). Chemical Hazards Information and Packaging for Supply (CHIP, 1994 No. 3247) Pressure Systems Safety Regulations (PSSR, 2000 No. 128). Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.

This Safety Data Sheet has been produced to comply with Regulation (EU) 453/2010.

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other Information

Revision Information:

Not relevant.

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Key literature references and sources for data:

Various sources of data have been used in the compilation of this SDS, they include but are not exclusive to:

- Agency for Toxic Substances and Diseases Registry (ATSDR) (<http://www.atsdr.cdc.gov/>).
- European Chemical Agency: Guidance on the Compilation of Safety Data Sheets.
- European Chemical Agency: Information on Registered Substances <http://apps.echa.europa.eu/registered/registered-sub.aspx#search>
- European Industrial Gases Association (EIGA) Doc. 169 Classification and Labelling guide.
- International Programme on Chemical Safety (<http://www.inchem.org/>) ISO 10156:2010 Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets.
- Matheson Gas Data Book, 7th Edition.
- National Institute for Standards and Technology (NIST) Standard Reference Database Number 69.
- The ESIS (European chemical Substances Information System) platform of the former European Chemicals Bureau (ECB) ESIS (<http://ecb.jrc.ec.europa.eu/esis/>). The European Chemical Industry Council (CEPIC) ERICards.
- United States of America's National Library of Medicine's toxicology data network TOXNET (<http://toxnet.nlm.nih.gov/index.html>)
- Threshold Limit Values (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH).
- Substance specific information from suppliers.

Details given in this document are believed to be correct at the time of publication.
EH40 (as amended) Workplace exposure limits.

Wording of the R-phrases and H-statements in sections 2 and 3

| | |
|------|---|
| R12 | Extremely flammable. |
| H220 | Extremely flammable gas. |
| H280 | Contains gas under pressure; may explode if heated. |

Training information:

Users of breathing apparatus must be trained. Ensure operators understand the flammability hazard.

Classification according to Regulation (EC) No 1272/2008 as amended.

Flam. Gas 1, H220
Press. Gas Liq. Gas, H280

Other information:

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. Ensure equipment is adequately earthed. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. Note: When the Product Name appears in the SDS header the decimal sign and its position comply with rules for the structure and drafting of international standards, and is a comma on the line. As an example 2,000 is two (to three decimal places) and not two thousand, whilst 1.000 is one thousand and not one (to three decimal places).

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Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.