

SDS Number: 224 Revision Date: 09/09/2015 Supersedes Date: 08/02/2013

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: COLIBRI BUTANE GAS

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Type: Product Name: Part Number(s):	Butane Gas COLLIBRI BUTANE GAS 12-133	Emergency Contact: Phone:	Chemtrec (800) 424-9300
1.1 Product identifier			
Product name:	C3H8 22 %;C4H10 24 %;C4H10 54 %		
Trade name:	Propel 40		
1.2 Relevant identified us	ses of the substance or mixture and uses advised again	st	
Identified uses:	Industrial and professional. Perform ris	k assessment prior to use.	

Uses advised against

Aerosol propellant. Consumer use.

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

Fammable 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



Signal Words:

Danger



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SECTION 2: HAZARDS IDENTIFICATION (CONTINUED)

Hazard Statement(s):	H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated.
Precautionary Statement	
Prevention:	P210: Keep aw ay 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	Concentration	CAS-No.	EC No.	REACH Registration	Notes
	formula				No.	
Butane	C4H10	54 %	106-97-8	203-448-7	01-2119474691-32	#
lsobutane	C4H10	24 %	75-28-5	200-857-2	01-2119485395-27	
propane	C3 H8	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.



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS (CONTINUED)

Classification

Chemical name	Classificati	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.

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.
	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.



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SECTION 4: FIRST AID MEASURES (CONTINUED)

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
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.



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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 . Biminate all ignition sources if safe to do so. Monitor the concentration of the released product. Prevent from entering sew ers, 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.

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°Cin 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



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SECTION 7: HANDLING AND STORAGE (CONTINUED)

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 Gose 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 contaminates 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.

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.

None.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Occupational Exposure Limits

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



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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED)

8.2	Exposure	controls
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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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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED)

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.

For waste disposal, see section 13.

Environmental exposure controls:

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: Sight odour, Gasoline-like or natural gas odour	
Odour Threshold:	Odour threshold is subjective and is inadequate to warn 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):	Fammable 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)	



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

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.
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.



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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/ I
Isobutane	LC50 (Rat, 15 min): 570000 ppm
Repeated dose toxicity Component information Isobutane	NOAEL (Rat(Female, Male), Inhalation): 21,394 mg/ m3
Skin Corrosion/ Irritation Product	Based on available data, the classification criteria are not met.
Serious Eye Damage/ Eye Irritatio Product	on 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.



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SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

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 - S Product	Single Exposure Based on available data, the classification criteria are not met.	
Specific Target Organ Toxicity - F Product	Repeated Exposure Based on available data, the classification criteria are not met.	
Aspiration Hazard Product	Not applicable to gases and gas mixtures	
SECTION 12: ECOLOGIC	AL INFORMATION	
12.1 Toxicity		
Acute toxicity Product	No ecological damage caused by this product.	
Acute toxicity - Fish Component information Isobutane	LC 50 (Various, 96 h): 27.98 mg/ I (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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SECTION 12: ECOLOGICAL INFORMATION (CONTINUED)

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 12.6 Other Adverse Effects:	Not classified as PBT or vPvB.
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



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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.
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 1965
14.2 UN Proper Shipping Name:	HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.(Butane-N, Isobutane)
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 1965
14.2 UN Proper Shipping Name	HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.(Butane-N, Isobutane)
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:	-



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SECTION 14: TRANSPORT INFORMATION (CONTINUED)

IMDG	
14.1 UN Number:	UN 1965
14.2 UN Proper Shipping Name:	HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.(Butane, Isobutane)
14.3 Transport Hazard Class(es)	
Class:	2.1
Label(s):	2.1
EmSNo.:	F-D, S-U
14.3 Packing Group:	-
14.5 Environmental hazards:	not applicable
14.6 Special precautions for user:	-
ΙΑΤΑ	
14.1 UN Number:	UN 1965
14.2 Proper Shipping Name:	Hydrocarbon gas mixture, liquefied, n.o.s.(Butane, Isobutane)
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:	-
Otherinformation	
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.



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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:

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



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SECTION 15: REGULATORY INFORMATION (CONTINUED)

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 (FC) 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.
Chemical safety assessment:	No Chemical Safety Assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Information:	Not relevant.	
Key literature references and	Various sources of data have been used in the compilation of this SDS, they include	
sources for data:	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.	
Part Number(s): 12-133		F



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SECTION 16: OTHER INFORMATION (CONTINUED)

	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 5 Information System) platform of the				
	former European Chemicals Bureau (ECB) ESIS (http://ecb.jrc.ec.europa.eu/esis/). The European Chemical Industry Council (CEFIC) 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 Regulati	on (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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SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: COLIBRI BUTANE GAS

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