# SAFETY DATA SHEET



### 1. Identification

Product identifier Other means of identification SDS number Recommended use Recommended restrictions	Butane/Propane Mix 1007 Fuel for portable gas appliances. Uses other than the recommended use.	
Manufacturer/Importer/Supplier Manufacturer Address	/ <b>Distributor information</b> The Coleman Company, Inc. 3600 N Hydraulic Wichita, KS 67219 United States	Newell Australia Pty Ltd. Level 3, 35 Dalmore Drive Caribbean Park Victoria 3179
Telephone E-mail Emergency telephone	1-800-835-3278 colemanproductsafety@newellco.com Call CHEMTREC day or night USA/Canada - 1.800.424.9300	ABN: 68 075071233 colemanproductsafety@newellco.com Call CHEMTREC day or night USA/Canada - 1.800.424.9300

### 2. Hazard identification

Physical hazards

Health hazards

Label elements



Flammable gases

Simple asphyxiants

Gases under pressure

Category 1 Liquefied gas Category 1

Signal word	Danger
Hazard statement	Extremely flammable gas. Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only with adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated.
Response	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources.
Storage	Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Other hazards	Contact with liquefied gas can cause damage (frostbite) due to rapid evaporative cooling.
Supplemental information	None.

### 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
Isobutane		75-28-5	65 - 70
Propane		74-98-6	21 - 25
Butane		106-97-8	7 - 15
Composition comments	Gas concentrations are in percent by volume.		
4. First-aid measures			
Inhalation	Remove from further exposure. For those prov others. Use adequate respiratory protection. If unconsciousness occurs, seek immediate med ventilation with a mechanical device or use mo immediately.	respiratory tract irritation, o	lizziness, nausea, or g has stopped, assist
Skin contact	Contact with liquefied gas can cause damage ( of cold burns (frostbite), soak in tepid water an		porative cooling. In case
Eye contact	Remove victim immediately from source of exp for at least 15 minutes. Get medical attention if		
Ingestion	Not likely, due to the form of the product.		
Most important symptoms/effects, acute and delayed	Headache. Dizziness. Fatigue. Nausea, vomitin lack of oxygen. Symptoms may include loss of asphyxiation. Asphyxiation may bring about un victim may be unable to protect themself. Expo may cause frostbite ("cold burn").	mobility/consciousness. V consciousness without wa	ictim may not be aware o rning and so rapidly that
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat	t symptomatically.	
General information	Ensure that medical personnel are aware of the protect themselves.	e material(s) involved, and	take precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water spray. Water fog. High expansion foam. fire-extinguishing media appropriate for surrour flow cannot be shut off immediately.		
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	May form explosive mixtures with air. Gas may and flash back. During fire, gases hazardous to include: Carbon oxides.		•
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pro	otective clothing must be w	orn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe FIRE UNLESS LEAK CAN BE STOPPED. In c cargo or vehicle if cargo has been exposed to l fire, ISOLATE for 800 meters (1/2 mile) in all di meters (1/2 mile) in all directions. ALWAYS sta containers from fire area if you can do so witho safety devices as icing may occur. Use water s immediately in case of rising sound from ventir to fire. For massive fire in cargo area, use unm not, withdraw and let fire burn out.	ase of fire: Stop leak if safe heat. If tank, rail car or tank irections; also consider init ay away from tanks engulfe but risk. Do not direct water spray to cool unopened cor ng safety device or any disc	e to do so. Do not move k truck is involved in a ial evacuation for 800 d in flame. Move t at source of leak or nationers. Withdraw colouration of tanks due
Specific methods	Use standard firefighting procedures and consi containers exposed to flames with water until w		volved materials. Cool
General fire hazards	Extremely flammable gas. Contents under presexposed to heat or flame.	ssure. Pressurised containe	er may explode when

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapours or divert vapour cloud drift. Isolate area until gas has dispersed.
	For waste disposal, see section 13 of the SDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid release to the environment.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Protect containers from physical damage; do not drag, roll, slide, or drop. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
	Avoid any uncontrolled release, venting or prolonged exposure. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO2 = 135 mmHg). Mechanical ventilation or local exhaust ventilation may be required. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store at temperature below 104°F (40°C). Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Containers should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see section 10 of the SDS).
8. Exposure controls/perso	onal protection
Occupational exposure limits	

Occupational exposure limits US. ACGIH Threshold Limit Values			
	Components	Туре	Value
	Butane (CAS 106-97-8)	STEL	1000 ppm
	Isobutane (CAS 75-28-5)	STEL	1000 ppm

Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.		
Individual protection measures,	such as personal protective equipment		
Eye/face protection	Wear one or more of the following depending on hazard of task: safety glasses, goggles, faceshield.		
Skin protection			
Hand protection	Depending on the task, chemically resistant (exposure to gas), and/or thermally insulated (exposure to liquefied gas) gloves are recommended. Suitable gloves can be recommended by the glove supplier.		
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Check with respiratory protective equipment suppliers.		
	Wear appropriate thermal protective clothing, when necessary.		
Thermal hazards General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

## 9. Physical and chemical properties

Appearance	
Physical state	Gas.
Form	Compressed liquefied gas.
Colour	Colourless.
Odour	Faint.
Odour threshold	Not available.
рН	Not applicable.

Butane/Propane Mix

Melting point/freezing point	-187 °C (-304.6 °F) Propane -160 °C (-256 °F) iso-Butane -138 °C (-216.4 °F) n-Butane
Initial boiling point and boiling range	-42 °C (-43.6 °F) Propane
lunge	-12 °C (10.4 °F) iso-Butane -1 °C (30.2 °F) n-Butane
Flash point	-104.0 °C (-155.2 °F) Propane -88.0 °C (-126.4 °F) iso-Butane -60.0 °C (-76.0 °F) Closed cup n-Butane
Evaporation rate	Not applicable.
Flammability (solid, gas)	Extremely flammable gas.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.8 % v/v n-Butane, iso-Butane
	2.2 % v/v Propane
Flammability limit - upper (%)	8.4 % v/v n-Butane, iso-Butane
	9.5 % v/v Propane
Vapour pressure	1557 mm Hg @ 68°F/20°C n-Butane 2280 mm Hg @ 68°F/20°C iso-Butane 5625 mm Hg @ 68°F/20°C Propane
Vapour density	1.55 (Air=1) Propane 2.1 (Air=1) n-Butane 2.59 (Air=1) iso-Butane
Relative density	0.501 (H2O=1) Propane (20°C/4°C liquid) 0.578 (H2O=1) iso-Butane, n-Butane (20°C/4°C liquid)
Solubility(ies)	
Solubility (water)	0.01 g/100ml @ 68°F/20°C Propane 3.25 ml/100ml @ 68°F/20°C n-Butane
Partition coefficient (n-octanol/water)	2.36 Propane
. ,	2.8 iso-Butane 2.89 n-Butane
Auto-ignition temperature	287 °C (548.6 °F) n-Butane 460 °C (860 °F) iso-Butane 466 °C (870.8 °F) Propane
Decomposition temperature	Not available.
Viscosity	Not applicable.
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Reacts with strong oxidants causing fire and explosion hazard.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Containers may rupture or explode if exposed to heat. Contact with incompatible materials. Do not cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	Strong oxidizing agents such as: Hydrogen peroxide (H2O2). Nitric acid. Sulfuric acid. Chlorine dioxide.
Hazardous decomposition products	Decomposition is not expected under normal conditions of use and storage. In the event of fire: See Section 5.

### 11. Toxicological information

### Information on likely routes of exposure

Information on likely routes of exposure				
Inhalation	Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.			
Skin contact	Contact with evaporating liquid may cause frostbite or freezing of skin.			
Eye contact	Direct contact with liquefied gas may cause eye damage from frostbite.			
Ingestion	Not likely, due to the form of the product.			
Symptoms related to the physical, chemical and toxicological characteristics	Headache. Dizziness. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn").			
Information on toxicological effe	ects			
Acute toxicity	Not expected to be acutely toxic.			
Skin corrosion/irritation	Gas is not likely to cause irritation. Contact with liquefied gas may cause frostbite.			
Serious eye damage/eye irritation	Direct contact with liquefied gas may cause eye damage from frostbite.			
Respiratory or skin sensitisation				
Respiratory sensitisation	Not a respiratory sensitiser.			
Skin sensitisation	This product is not expected to cause skin sensitisation.			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Not classifiable as to carcinogenicity to humans.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not an aspiration hazard.			
Chronic effects	Prolonged inhalation may be harmful. High concentrations, prolonged or repeated exposure: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue) and/or damage.			
12. Ecological information				
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Persistence and degradability	The product is readily biodegradable.			
Bioaccumulative potential	The product is not expected to bioaccumulate.			
Partition coefficient n-octan 2.36, Propane 2.8, iso-Butane 2.89, n-Butane	ol / water (log Kow)			
Mobility in soil	Not relevant, due to the form of the product. Highly volatile, will partition rapidly to air.			
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.			
13. Disposal considerations				
Disposal instructions	Contents under pressure. Do not puncture or incinerate even when empty. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Local disposal regulations	Dispose in accordance with all applicable regulations.			
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			

Butane/Propane Mix

**Contaminated packaging** 

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

-	
DOT	
UN number	UN2037
UN proper shipping name	Gas cartridges, (flammable) without a release device, non-refillable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	-
Environmental hazards	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	UN2037
UN proper shipping name	Gas cartridges, (flammable) without a release device, non-refillable.
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	-
Environmental hazards	No
ERG Code	-
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN2037
UN proper shipping name	Gas cartridges, (flammable) without a release device, non-refillable.
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	-
Environmental hazards	
Marine pollutant	No
EmS	<u>E-D</u> , S-U
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established. Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	
General information	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 containers are firmly secured. Ensure adequate ventilation. Ensure compliance with applicable
	regulations.
	SPECIAL PERMIT SP9758.
15. Regulatory information	This product has been classified in accordance with the hazard criteria of 29 CFR 1910.1200.

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TSCA Section 12(b) Export Notification Not regulated. CERCLA Hazardous Substances List			
Butane (CAS 106-97-8)	Listed.		
	Listed. 2 Hazardous Air Pollutants (HAPs) List ubstances (29 CFR 1910.1001-1053	Not regulated. Not regulated.	

International regulations

**Stockholm Convention** 

Not applicable.

#### **Rotterdam Convention**

Not applicable. **Kyoto Protocol** Not applicable. **Montreal Protocol** Not applicable. **Basel Convention** Not applicable.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information

Issue date	9-December-2019
Revision date	8-18-2020 (*Update UN Transport name.)
Version No.	05
Disclaimer	The Coleman Company Inc cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.