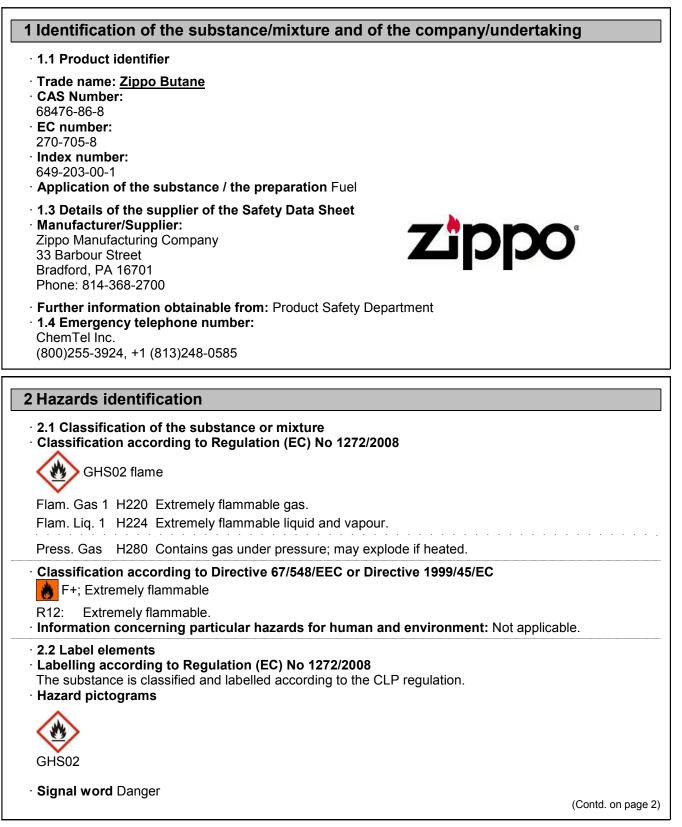
Printing date 6/27/2012

Revision: 6/27/2012



Printing date 6/27/2012

Trade name: Zippo Butane

Revision: 6/27/2012

	(Con	td. of page 1)		
 Hazard stateme 				
	y flammable gas.			
	gas under pressure; may explode if heated.			
	y flammable liquid and vapour.			
	ofessional users.			
• Precautionary				
P101	If medical advice is needed, have product container or label at hand.			
P102	Keep out of reach of children.			
P103	Read label before use.			
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.			
P241 P280	Use explosion-proof electrical/ventilating/lighting/equipment.			
P240	Wear protective gloves/protective clothing/eye protection/face protection. Ground/bond container and receiving equipment.			
P233	Keep container tightly closed.			
P242	Use only non-sparking tools.			
P243	Take precautionary measures against static discharge.			
	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated cloth	ina Rinse		
	skin with water/shower.	ing. I three		
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.			
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.			
P381	Eliminate all ignition sources if safe to do so.			
P410	Protect from sunlight.			
P403	Store in a well-ventilated place.			
P403+P235	Store in a well-ventilated place. Keep cool.			
P501	Dispose of contents/container in accordance with local/regional/national/in	ernational		
	regulations.			
Hazard descrip				
· WHMIS-symbol				
A - Compressed				
B1 - Flammable	egas			
$\cap \cap$				
(*)				
· NFPA ratings (s	(scale 0 - 4)			
Health = 0 Fire = 4				
	= 4 ctivity = 0			
· HMIS-ratings (scale 0 - 4)				
HEALTH O Hea	alth = 0			
	e = 4			
REACTIVITY O Reactivity = 0				
· 2.3 Other hazards				
· Results of PBT and vPvB assessment				
• PBT: Not applic				
		d. on page 3)		

Printing date 6/27/2012

Trade name: Zippo Butane

(Contd. of page 2)

Revision: 6/27/2012

• **vPvB:** Not applicable.

3 Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 68476-86-8 Petroleum gases, liquefied, sweetened
- · Identification number(s)
- EC number: 270-705-8
- · Index number: 649-203-00-1

4 First aid measures

• 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Generally the product does not irritate the skin.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Unlikely route of exposure.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information Cool endangered receptacles with water spray.

(Contd. on page 4)

Printing date 6/27/2012

Trade name: Zippo Butane

Revision: 6/27/2012

(Contd. of page 3)

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation

Keep away from ignition sources.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Allow to evaporate.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- 7.1 Precautions for safe handling Open and handle receptacle with care.
- \cdot Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: Store in a cool location.

- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- · Protection of hands: Not required.
- · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

(Contd. on page 5)

Printing date 6/27/2012

Trade name: Zippo Butane

(Contd. of page 4)

Revision: 6/27/2012

• Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

Physical and chemical proper	ties
 9.1 Information on basic physical ar General Information Appearance: 	nd chemical properties
Form:	Compressed liquefied gas
Colour:	Colourless
· Odour:	Odourless
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-24°C (- 11 °F)
· Flash point:	-91°C (- 132 °F) (Closed Cup))
· Flammability (solid, gaseous):	Not determined.
Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1,8 Vol %
Upper:	9,5 Vol %
· Vapour pressure at 21°C:	2814 hPa (2110 mm Hg)(Estimated))
Density at 20°C:	0,56 g/cm ³
· Relative density	Not determined.
 Vapour density at 20°C 	1,7237 (Air = 1,0)
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Segregation coefficient (n-octanol/v	vater): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
	(Contd. on page 6)

Printing date 6/27/2012

Trade name: Zippo Butane

• 9.2 Other information

No further relevant information available.

10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions
 Used empty containers may contain product gases which form explosive mixtures with air.
 Reacts with strong oxidizing agents.
 Danger of receptacles bursting because of high vapour pressure when heated.
 Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

12 Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential Does not accumulate in organisms
- **12.4 Mobility in soil** No further relevant information available.
- · Additional ecological information:
- · General notes:

Negative ecological effects are, according to the current state of knowledge, not expected.

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

(Contd. on page 7)

(Contd. of page 5)

Revision: 6/27/2012

ation available

Printing date 6/27/2012

Trade name: Zippo Butane

• 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number	
DOT, ADR, IMDG, IATA	UN1075
14.2 UN proper shipping name	
DOT, IMDG, IATA ADR	PETROLEUM GASES, LIQUEFIED 1075 PETROLEUM GASES, LIQUEFIED
14.3 Transport hazard class(es)	
DOT	
	
Class	2.1
Label	2.1
ADR	
	
Class	2.1 F1
Label	2.1
IMDG, IATA	
	
Class	2.1
Label	2.1

Revision: 6/27/2012

(Contd. of page 6)

Printing date 6/27/2012

Revision: 6/27/2012

Trade name: Zippo Butane

	(Contd. of page 7)			
 14.4 Packing group DOT, ADR, IMDG, IATA 	N/A			
· 14.5 Environmental hazards:				
· Marine pollutant:	No			
 14.6 Special precautions for user 	Not applicable.			
· 14.7 Transport in bulk according to Annex II of				
MARPOL73/78 and the IBC Code	Not applicable.			
· UN "Model Regulation":	UN1075, PETROLEUM GASES, LIQUEFIED, 2.1			

15 Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the United States (USA) SARA 	substance or mixture
· Section 355 (extremely hazardous substances):	
Substance is not listed.	
· Section 313 (Specific toxic chemical listings):	
Substance is not listed.	
· TSCA (Toxic Substances Control Act):	
Substance is listed.	
· Proposition 65 (California):	
· Chemicals known to cause cancer:	
Substance is not listed.	
· Chemicals known to cause reproductive toxicity for females:	
Substance is not listed.	
· Chemicals known to cause reproductive toxicity for males:	
Substance is not listed.	
· Chemicals known to cause developmental toxicity:	
Substance is not listed.	
· Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
Substance is not listed.	
· TLV (Threshold Limit Value established by ACGIH)	
Substance is not listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
Substance is not listed.	
	(Contd. on page 9)

Printing date 6/27/2012

Trade name: Zippo Butane

(Contd. of page 8)

Revision: 6/27/2012

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Canada

· Canadian Domestic Substances List (DSL)

Substance is listed.

Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

· Canadian Ingredient Disclosure list (limit 1%)

Ingredients are listed as required.

Substance is not listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)