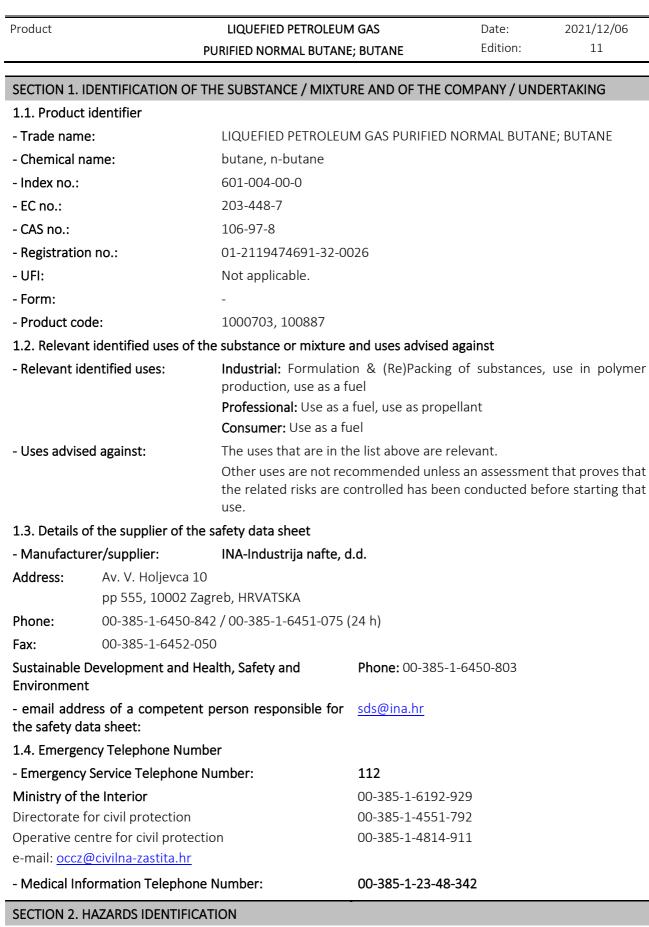


According to the Regulation No. 1907/2006

Page 1 of 14







According to the Regulation No. 1907/2006

Page 2 of 14

Product	LIC	QUEFIED PETROLEUM GAS	Date:	2021/12/06
	PURIFIE	ED NORMAL BUTANE; BUTANE	Edition:	11
2.1. Classification of the subs	tance or n	nixture		
2.1.1. Classification according	g to Regula	ation (EC) No 1272/2008 (CLP):		
Flam. Gas 1; H220				
Press. Gas; H280				
Full text of H-phrases: see se	ction 16.			
2.2. Label elements				
2.2.1. Labelling according to	Regulatior	n (EC) No 1272/2008 (CLP)		
Hazard pictograms:				
GHS02 GHS04 Signal word: Danger Hazard statements (H):	H220	Extremely flammable gas.		
	H220 H280	Extremely flammable gas. Contains gas under pressure; n	nay explode if he	ated.
Signal word: Danger		Extremely flammable gas. Contains gas under pressure; m Keep away from heat/sparks/ smoking.		
Signal word: <b>Danger</b> Hazard statements (H): Precautionary statements	H280	Contains gas under pressure; m Keep away from heat/sparks/	open flames/hot	t surfaces. — N
Signal word: <b>Danger</b> Hazard statements (H): Precautionary statements	H280 P210	Contains gas under pressure; m Keep away from heat/sparks/ smoking. Leaking gas fire: Do not exting	open flames/hot guish, unless leal	t surfaces. — N k can be stoppe
Signal word: <b>Danger</b> Hazard statements (H): Precautionary statements	H280 P210 P377	Contains gas under pressure; m Keep away from heat/sparks/ smoking. Leaking gas fire: Do not exting safely.	open flames/hot guish, unless leal ignition sources	t surfaces. — N k can be stoppe
Signal word: <b>Danger</b> Hazard statements (H): Precautionary statements	H280 P210 P377 P381	Contains gas under pressure; m Keep away from heat/sparks/ smoking. Leaking gas fire: Do not exting safely. In case of leakage, eliminate all	open flames/hot guish, unless leal ignition sources	t surfaces. — N k can be stoppe

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS						
-Substance:	Х				Mixture	::
- Components co	- Components contributing to product hazardousness:					
Substance name			Substance identification		[%]	Classification according to Regulation
Substance name		CAS no.	EC no.	Registration no. (REACH)	[70]	(EC) No 1272/2008 (CLP)
n-butane		106-97-8	203-448-7	01-2119474691-32- 0026	>97	Flam. Gas 1, H220 Press. Gas
isobutane		75-28-5	200-857-2	01-2119485395-27- 0018	<2.5	Flam. Gas 1, H220 Press. Gas
propane		74-98-6	200-827-9	01-2119486944-21- 0037	<0.2	Flam. Gas 1, H220 Press. Gas



According to the Regulation No. 1907/2006

Page 3 of 14

Product	LIQUEFIED PETROLEUM GAS PURIFIED NORMAL BUTANE; BUTANE				Date: Edition:	2021/12/06 11
isopentane	78-78-4 201-142-8 - <0.3			Asp. To STOT S	. 1; H224 x. 1; H304 E 3; H336 ronic 2; H411	
n-pentane	109-66-0	203-692-4	-		Asp. To STOT S	I. 2; H225 x. 1; H304 E 3; H336 ronic 2; H411

### SECTION 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

- general information:	Before administering first aid to the affected persons, isolate the accident area from sources of ignition, including the disconnection from the power supply. Before entering the enclosed space, check the atmosphere and provide ventilation. Use appropriate personal protective equipment (see Section 8).
- after inhalation:	Remove the affected person from the contaminated area to fresh air and place in a position that facilitates breathing. In case of dizziness, nausea, headache, and permanent complaints immediately seek medical attention. In case of fainting transport in lateral position to hospital, paying attention to the free passing of the air thorough the respiratory tract. In case of difficulty in breathing or respiratory arrest, open airways, initiate resuscitation (heart massage and artificial respiration) and immediately seek medical attention.
- after skin contact:	Frostbite may occur. Do not remove clothing from the <b>frostbite</b> area, do not rub, massage, or press on the damaged skin area. Rinse the affected area with lot of water for at least 15 minutes – and if possible, heat the affected tissue with a water bath at 37 - 42 ° C. Seek medical attention immediately.
- after eye contact:	Frostbite may occur. Remove contact lenses (if used by affected person) and wash with water for at least 15 minutes. Immediately seek help from a physician.
- after ingestion:	Not considered as possible exposure route. In case of contact with product, frostbite is possible on lips and in mouth.
- personal protective equipment for first aid responder:	Rescuers must wear breathing apparatus, lifebelt and rope, and follow rescue instructions.
4.2 Most important symptom	s and effects, both acute and delayed
- after inhalation:	Headache, dizziness, dullness. Higher concentration or longer exposure can cause fainting and suffocation.
- after skin contact:	Compressed gas causes frostbites.
- after eye contact:	Compressed gas causes frostbites.
- after ingestion:	Not considered as possible exposure route, may cause frostbite.
4.3 Indication of any immedia	ate medical attention and special treatment needed



According to the Regulation No. 1907/2006

Page 4 of 14

Product	LIQUEFIED PETROLEUM GAS	Date:	2021/12/06
	PURIFIED NORMAL BUTANE; BUTANE	Edition:	11

Treat symptomatically. In case of contact with the product in liquid form, treat frostbite. Only qualified medical personnel should administer oxygen.

SECTION 5. FIREFIGHTI	NG MEASURES			
5.1 Extinguishing media	a			
- SUITABLE:	Large fires: Water spray, water mist or air foam (for plashes of LPG). Small fires: Dry powder or $CO_2$ or air foam (for plashes of LPG). Convenient: sand or earth.			
- UNSUITABLE:	Water jet, simultaneous us	e of water and foam because water destroys foam.		
5.2 Special hazards aris	ing from the substance or mi	xture:		
- Hazardous combustion products:		Incomplete combustion of hydrocarbons can produce smoke containing CO, CO <sub>2</sub> . Highly flammable and explosive substance. Vapours are heavier than air and may spread away from the site of accident and cause an explosion and fire.		
5.3 Advice for firefighte	ers:			
- Firefighting measures for special hazards:		Eliminate all sources of ignition. Stop product leakage if it can be done in a safe manner, if not, leave the product to burn out and cool the containers and surroundings with water		
		spray due to the risk of explosion. Extinguish the fire from the maximum safe distance and evacuate persons from the fire area.		
- Special firefighting methods:		Use of water mist and water spray for cooling the surfaces exposed to heat and for protection of persons. Only persons trained in firefighting may use the water spray (sprayed water).		
- Special protective equipment for firefighters:		Self-contained open circuit compressed air breathing apparatus (HRN EN 137). Wear protective clothing for firefighters (intervention suit) in accordance with HRN EN 469.		

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

- 6.1.1. For non-emergency personnel
- Protective equipment:

Use personal protective equipment listed in section 8 and remove unprotected persons from the affected area immediately.



According to the Regulation No. 1907/2006

Page 5 of 14

Product	LIQUEFIED PETROLEUM GAS	Date:	2021/12/06
	PURIFIED NORMAL BUTANE; BUTANE	Edition:	11
- Accident prevention procedure	with open flar Measure oxyge for flammable g of flammable g than air and n room, poising ventilation of a ignition, avoid	visible location that me or sparking to en concentration in gases may be used t ases or vapours. Va nay reduce the ox a suffocation ris preas at risk. Elimin sparking and tal ost static electricity.	ols is forbidder the air. detecto cocheck presence pours are heavie ygen level in th sk. Ensure goo ate all sources o ke precautionar
- Procedure in case of accident:	leak as soon a Prevent gas p accumulation c and similar). Pr	from the leak site. s possible if it can benetration into p ould be dangerous rovide ventilation. te if an accidental o	n be done safel blaces where it (sewage, recesse The product sha
6.1.2. For emergency responder	area and allow personal prote	charge area. Ventila w the product to ctive equipment lis vacuate unprotecto ea.	evaporate. Us sted in Section
6.2 Environmental precautions:	manner. Insul penetration in could be dange Provide good v	t spread if this can b ate the spill are to places where erous (sewage, rece rentilation. The pro accidental dischar at 112.	ea. Prevent ga its accumulatio esses and similar duct shall rapid
6.3 Methods and material for co	ntainment and cleaning up		
6.3.1. For bunding, covering and	done in a saf	the leak at the sou ely manner. Allow ure adequate ventil	the product t
6.3.2. For cleaning up:	Ventilate the d to evaporate.	ischarge area and a	allow the produ
6.3.3. Other information:	forms an expl concentration point of esca	iid very quickly turi osive mixture with drops below exploi pe, initiate interv of cryogen liquid an	n air! When th sion limits at th vention. Display
		h cooling – cryoge k. May cause frostb	en liquid becom



According to the Regulation No. 1907/2006

Page 6 of 14

Product

### LIQUEFIED PETROLEUM GAS PURIFIED NORMAL BUTANE; BUTANE

Date: Edition:

and where this product is handled. Use personal protection equipment listed in Section 8. Avoid inhalation and contact with skin and eyes.

2021/12/06 11

### SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

7.1.1 Safe handling advice:	Use product only in well-ventilated areas. Keep away from sources of heat and ignition. Use non-sparking tools. Decant only at properly marked and equipped areas in accordance with relevant regulations. Take special care of connection points to prevent possible leaks. Strictly follow occupational safety and fire safety measures. Do not throw cylinders in order to avoid cylinder or valve damage. Do not handle cylinder in the presence of open flame. Do not check for leaks with open flame, only with soap (foam). Do not open valves on cylinders or special-purpose tanks with any tool (only with hands). Keep away from direct sunlight.
7.1.2 Advice on general occupational hygiene:	It is forbidden to smoke, eat, drink, or keep food in a room where this product is handled. Keep personal clothes separated from work clothing

### 7.2 Conditions for safe storage, including any incompatibilities

- SUITABLE:	Dedicated containers and metal (steel) pressurized cylinders according to regulations concerning storage and decanting of LPG. Store in open space or well-ventilated place, explosion-proof.
- TO BE AVOIDED:	Storing in the area together with chemicals that can cause fire (oxidants, acids). Do not keep sparking tools and machines in storage area. Do not store or use cylinders in horizontal position i.e., position in which the liquid is coming out through gas phase opening.
- Packaging materials	
- RECOMMENDED:	Original manufacturer's container with valid certificate.

- NOT SUITABLE: Any other packaging material.

### 7.3 Specific end use(s):

Safety handling documentation is available at each production site and includes the selection of technical, administrative, and personal protective equipment in accordance with the risk-based management system.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

Hazardous substance (CAS No.)	values/sho	l exposure limit rt term values L/STEL)	Biological limit values
	ppm	mg/m³	
Butane (106-97-8)	600/750	1450/1810	-
Isopentane (78-78-4)	1000/-	3000/-	-



According to the Regulation No. 1907/2006

Page 7 of 14

Product		FIED PETROLEUM GAS NORMAL BUTANE; BUTANE	Date: Editior	2021/12/06 11
	Pentane	1000/-	3000/-	-
	(109-66-0)			

#### - Monitoring procedures:

#### 8.2. Exposure controls

- Summary of risk management measures: The degree of protection and the type of control depend on the possible exposure according to risk assessment. Measurement of oxygen and hazardous substances in the air, according to regulations.

### 8.2.1 Occupational exposure controls

#### - Description of operating procedure and technological control:

Provide good ventilation/air suction in work area. Provide decontamination sprinkler for eyes and face. Respect personal hygiene measures: wash hands after work, mandatory before eating, drinking, or smoking. Regularly maintain and wash clothing and equipment after use to remove dirt. Dispose contaminated clothing and equipment according to regulations. Maintain cleanliness according to good practice. Educate and train the employees on potential hazards and control measures. Test and maintain product handling equipment: e.g., personal protection equipment, ventilation system.

#### 8.2.2 Personal protective equipment

- respiratory protection:	Use protective mask for the whole face (HRN EN 136/AC:2006) with filter for the protection against gases and evaporation of organic compounds with a boiling point up to 65°C (HRN EN 14387). In the event of an increased gas concentration and a decreased oxygen concentration, it is mandatory to use self-contained open circuit compressed air breathing apparatus (HRN EN 137).
- hand protection:	Use protective gloves (HRN EN 374) of persistent leak-proof material (nitrile or nitrile butyl rubber). In frequent contact with the hazardous substance, the resistance level to absorption of the gloves shall be > 240 min. In case of manipulation with liquefied butane, it is necessary to use thermally insulated gloves HRN EN 511, in order to avoid frostbite.
- eye/face protection:	Protective goggles or a visor (HRN EN 166).
- skin and body protection:	Protective clothing (HRN EN ISO 13688, HRN EN 1149-5, HRN EN 14605 (type 3 and 4), HRN EN 1073-2, HRN EN ISO 13982-1:2005/A1:2011 TYPE 5, HRN EN 13034 TYPE 6, HRN EN 14126:2004/AC:2005).
- Special hygienic and safety precautions:	The workplace shall be equipped with a shower. No smoking or eating and drinking when handling the gas. Regularly control and monitor the functionality and the use of personal protective equipment used when handling the hazardous chemical. Regularly wash and maintain personal protective clothing and equipment. The contaminated clothing may not be used and shall be replaced. In the case of liquefied butane handling, personal protective equipment must be used to prevent frostbite. Contaminated leather clothing and footwear must not be reused and must be disposed of properly.

#### 8.2.3 Environmental exposure controls

- Summary of risk management measures: No data available.



According to the Regulation No. 1907/2006

Date:

Edition:

Page 8 of 14

Product

## LIQUEFIED PETROLEUM GAS PURIFIED NORMAL BUTANE; BUTANE

2021/12/06 11

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES			
9.1. Information on b	9.1. Information on basic physical and chemical properties		
- physical state:	gas; liquid under pressure		
- colour:	colourless		
- odour:	odourless		
- odour threshold:	Not applicable.		
- pH value (indicate c	conc. and temp.):		Not applicable.
<ul> <li>melting point/freez</li> </ul>	ing point:	°C	-138
- boiling point/boiling	g range:	°C	-0.5 at 1 bar
- flash point:		°C	-60
- evaporation rate:			No data available.
- flammability (solid,	nability (solid, gas): No data available.		No data available.
- explosive limits:		vol. %	1.9 – 8.5
- vapour pressure:		kPa	385 (max.)
- vapour density at 1	density at 15°C: kg/m <sup>3</sup> No data available.		No data available.
- relative density: No data available.		No data available.	
- density at 15°C:		kg/m³	585
- solubility (indicate s	solvent):	g/L	No data available.
- solubility in water (a	at 20 - 25°C and pH 7):	g/L	60.4 (from literature)
- partition coefficient	t n-octanol / water	logPow	1.815 (from literature)
- auto ignition tempe	erature:	°C	405
- decomposition tem	perature:	°C	No data available.
- kinematic viscosity	at xx °C:	mm²/s	No data available.
- oxidizing properties	5:		No data available.
- conductivity:		pS/m	No data available.
9.2. Other informatio	n:		

### 9.2. Other information:

No data available.

### SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

10.2 Chemical stability:

Stable under recommended handling and storage conditions.

Stable under recommended handling and storage conditions.



According to the Regulation No. 1907/2006

Page 9 of 14

Product	LIQUEFIED PETROLEUM GAS PURIFIED NORMAL BUTANE; BUTANE		Date:	2021/12/06
			Edition:	11
10.3 Possibility of hazardous re-	actions:	Butane is an asphyxiator, colourless and odourless. I very flammable and explosive. The released liq rapidly turns into a gaseous state and creates explosive mixture with air! It is heavier than air and o penetrate to canals, drainage systems, basements e away from the accident site and cause an explosion a fire.		e released liquic and creates ar r than air and car s, basements etc
10.4 Conditions to avoid:		Contact with air, heat sources, flame, sparking.		sparking.
10.5 Incompatible materials:		Strong oxidants.		
10.6 Hazardous decomposition	products:	None in standard o storage; however the harmful gases, in carbon dioxide.	ermal decomposit	ion may generate

SECTION 11. TOXICOLOGICAL INFORMATION			
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:			
- Acute toxicity			
- oral (LD <sub>50</sub> ):	Not classified.		
- inhalation ( $LC_{50}$ ):	>800000 ppm (10 min., rat)		
- dermal (LD <sub>50</sub> ):	Not classified.		
- Corrosion/Irritation			
- skin: Compressed gas causes frostbites.			
	Sudden expansion of compressed gas can cause frostbite on contact area		
- Repeated dose toxicity	No data available.		
- Serious damage/irritation			
- eyes: Compressed gas causes frostbites.			
- Sensitisation			
- skin:	Not classified.		
- respiratory tract:	Not classified.		
- Germ cell mutagenicity:	Not classified.		
- Carcinogenicity:	Not classified.		
- Reproductive toxicity:	Not classified.		
- STOT (SE):	Not classified.		
- STOT (RE):	Not classified.		
- Aspiration hazard:	Not applicable.		
- Information on likely routes of e	exposure: No data available.		



According to the Regulation No. 1907/2006

Page 10 of 14

Product LIQUEFIEI	D PETROLEUM GAS	Date:	2021/12/06
PURIFIED NOR	RMAL BUTANE; BUTANE	Edition:	11
- Symptoms related to the physical, chemical and toxicological characteristics:	High concentration causes and if the amount of oxyg cause fainting, suffocation depression (CNS). Touch frostbite. Higher concentr cardiotoxic effects, and t oxygen concentration in th	en in the air falls n and/or central with compresse rations may leac he outcome car	s below 17% ma nervous syster d gas can caus I to hypoxia an n be fatal if th
- Delayed and immediate effects as well as chronic effects from short and long-term exposure:	Causes CNS damage. As drowsiness. High concentr cause fainting and suffocat	ation or prolong	
11.2. Information on other hazards			
- Endocrine disrupting properties:	No data available.		
- Other information:	No data available.		
SECTION 12. ECOLOGICAL INFORMATION			
12.1. Toxicity			
- to aquatic organisms:	LC <sub>50</sub> =27.98 mg/L (96h, <sup>.</sup> LC <sub>50</sub> =69.43 mg/L (48h, EC <sub>50</sub> =16.47 mg/L (96h,	Daphnia sp.)	
- to ground organisms:	No data available.	0 0 ,	
- to plants and land animals:	No data available.		
12.2. Persistence and degradability			
- biodegradation:	No data available.		
- other degradation processes:	No data available.		
- degradation in wastewater:	No data available.		
12.3. Bioaccumulative potential			
- bio-concentration factor (BCF):	1.09 – 2.8 (literature da	ata)	
12.4. Mobility in soil	Method	: No data availab	le.
- Known or predicted distribution in environmental compartments:	Due to very fast evapor pollution. Due to the surfaces from where it	lower density, i	t stays on wat
- surface tension:	No data available.		
- absorption/desorption:	No data available.		
- other physical and chemical properties:	See Section 9.		
12.5. Results of PBT and vPvB assessment			
- data from chemical safety report:	The substance does no Annex XIII, REACH regu		vPvB criteria of
12.6. Endocrine disrupting properties:	No data available.		



According to the Regulation No. 1907/2006

Page 11 of 14

Product LIQUEFIED PE	FROLEUM GAS	Date:	2021/12/06
PURIFIED NORMAL	BUTANE; BUTANE	Edition:	11
12.7. Other adverse effects:	No data available.		
SECTION 13. DISPOSAL CONSIDERATIONS			
13.1 Waste treatment methods: N	ot applicable.		
- Waste codes: N	ot applicable.		
- Waste from residues: N	ot applicable. There is r	no classic waste fr	om this product.
- Contaminated packaging: Cl	lose the empty containe	ers and return to p	producer.
•	/aste Management Act rdinance on waste man		waste catalogue
SECTION 14. TRANSPORT INFORMATION			
14.1 UN number or ID number:	1011		
14.2 UN proper shipping name:	BUTANE		
14.3 Transport hazard class(es)			
ADR/RID/ADN/ICAO/IATA:	2		
IMDG:	2		
14.4 Packing group			
ADR/RID/ADN/IMDG/ICAO/IATA:	Not assigned to any	packaging group.	
14.5 Environmental hazards			
ADR, RID, ADN, ICAO/IATA:	Due to very fast evaporation, it is not likely so water pollution. Due to very fast evaporation, it is not likely so water pollution.		ot likely soil and
IMDG:			ot likely soil and
14.6 Special precautions for user			
ADR	RID		
Transport category: 2	Transport category:	2	
Vehicle for tank carriage: FL	Tank code: PxBN(M)		
Tank code: PxBN(M)	Label: 2.1 (+13)		
Tunnel restriction code: B/D	Classification code: 2	2F	
Label: 2.1	Hazard identification	: 23	
Classification code: 2F	Special provisions: T	U38, TE22, TA4, T	T9, TM6, CV9,
Hazard identification: 23	CV10, CV36, CE3		
Special provisions: 392, 652, 657, 661, 674, TA4, TT9, TT11, CV9, CV10, CV36, S2, S20			
ADN	IMDG		
Label: 2.1	Subsidiary risk: /		
Additional requirements/Remarks: 2; 31	Group of the cargo:	P200	



According to the Regulation No. 1907/2006

Page 12 of 14

Product	LIQUEFIED PETROLEUM GAS PURIFIED NORMAL BUTANE; BUTANE		Date: Edition:	2021/12/06 11
Dangers: 2.1 Equipment required: PP, EX, A Classification code: 2F Carriage permitted: YES Type of tank vessel: G Anti-explosion protection requir Maximum degree of filling in %:		Special provisions: - EmS: F-D, S-U Segregation group: Cat.	E	

ICAO
Label: 2.1
Cargo IMP code: RFG
Passenger and cargo aircraft: Forbidden
Cargo aircraft only: 150 kg net per packaging
ERG code: 10L
14.7 Maritime transport in bulk according to IMO i

Trade name:	-
Pollution category (according to MARPOL, Annex II):	-
Vessel type (according to IBC Code):	-
Special and operative requirements (according to IBC Code):	-

### **15. REGULATORY INFORMATION**

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

- Applicable EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP); <b>Commission Regulation (EU) 2020/878</b> of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 (REACH).
- Applicable national regulations:	Act on Chemicals; Ordinance on workers protection to dangerous chemicals exposure during work, exposure limit values and biological limit values; Act on Waste Management, Ordinance on waste catalogue, Ordinance on waste management.
- Authorization information: -	

- Restriction information: -

15.2 Chemical Safety Assessment



According to the Regulation No. 1907/2006

Page 13 of 14

				Page 13 of 1
Product	LIQUEFIED PETROLEUM GAS PURIFIED NORMAL BUTANE; BUTANE		Date: Edition:	2021/12/06 11
- Chemical Safety	/ Assessment carried out (CSA):	YES	x	NO
16. OTHER INFO	RMATION			
Revision indicato	rs			
Section:	Subject of change:			
	New edition of SDS with changes in all chapte	ers.		
	Aligned with Commission Regulation (EU) 202	20/878.		
Full text of H- ph	rases			
H220	Extremely flammable gas.			
H280	Contains gas under pressure; may explode if hea	ated.		
Abbreviations an	d acronyms:			
ADN	European Agreement concerning the Internatic Inland Waterways	onal Car	riage of Dar	igerous Goods b
ADR	European Agreement concerning the Internatic Road	onal Car	riage of Dar	igerous Goods I
CAS number	Chemical Abstract Service number			
CLP	Classification, Labelling and Packaging of substa	nces an	d mixtures	
CSA	Chemical Safety Assessment			
CSR	Chemical Safety Report			
EC number	European Community number for identification available in the EU	of chen	nical substar	ices commercial
IATA	International Air Transport Association			
ICAO	International Civil Aviation Organization			
IMDG	International Maritime Dangerous Goods Code t	transpo	rt	
LC50	Lethal concentration for 50% of tested organism	าร		
LD50	Lethal concentration for 50% of tested organism	ns (med	ium lethal co	oncentration)
OIN	Oil industry notes			
PBT	Persistent, bioaccumulative and toxic			
REACH	Registration, Evaluation, Authorisation and Rest	riction o	of Chemicals	
RID	Regulations Concerning the International Transp	port of [	Dangerous G	oods by Rail
STOT (SE)	Specific Target Organ Toxicity (Single Exposure)			
STOT (RE)	Specific Target Organ Toxicity (Repeated Exposu	ıre)		
UFI	Unique formula identifier (according to section (EU) no. 1272/2008)	5. Part	A of Annex	VIII of Regulatic
UVCB	Chemical Substances of Unknown or Variab Products and Biological Materials	ole Com	nposition, C	omplex Reactio
vPvB	Very persistent and very bioaccumulative			



According to the Regulation No. 1907/2006

Page 14 of 14

11

Product
---------

LIQUEFIED PETROLEUM GAS Date: 2021/12/06 Edition: PURIFIED NORMAL BUTANE; BUTANE

#### Statement:

This SDS is in compliance with the EU Regulation No. 1907/2006 and No. 1272/2008 of the European Parliament and the Council. It contains important user health and safety and environmental protection information. The information provided herein is not a substitute for any specification of quality and should not be deemed as a guarantee of the adequacy and applicability of this product for any purpose whatsoever. All information provided herein is based on our current knowledge and compliant with applicable legal regulations. The user is responsible for adherence to relevant legal regulations.

#### Data source:

- 1. www.hzt.hr
- 2. http://echa.europa.eu/hr
- 3. LOA REACH Consortium, Active Steward documents for Safety Data Sheet creation

APPENDIX: EXPOSURE SCENARIOS ACCORDING TO CHEMICAL SAFETY REPORT