LIQUIFIED NATURAL GAS (LNG)

Safety Data Sheet

Prepared in accordance with the regulation on Registration, Evaluation, Authorization and Restriction of Chemicals published in the Official Gazette dated 23 June 2017 and numbered 30105 (Repeated).
Prepared on 08/05/2023Number of updates: 1.0.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name : LIQUIFIED NATURAL GAS (LNG)

Other means : Synthetic natural gas, Marsh gas

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

Main use category : It is used as a raw material in domestic, commercial, industrial and automotive fuel, chemical processes.

Use of the substance/mixture : This product should not be used in applications other than those listed in Section 1 without first seeking advice from the supplier.

1.3. Details of the supplier of the safety data sheet

Manufacturer/supplier/Distributor
BOTAŞ LNG İşletme Müdürlüğü
Posta kutusu 17
Marmara Ereğlisi / TEKİRDAĞ
Tel +90 282 611 57 45
info@botas.gov.tr

1.4. Emergency telephone number

Emergency telephone number : +90 282 611 57 45

Country	Organization/Company	Address	Emergency number	Remark
Turkey	National Poison Center Refik Saydam Hygiene Center Presidency	Cemal Gürsel St. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information service about poisonings is provided to the public and health personnel via the phone number 114.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (RG) 11.12.2013-28848 [SEA]

Flammable Gas, Category 1, H220

Gases Under Pressure (Compressed gas) H280

Full text of H statements: see section 16

2.2. Label elements

Classification according to Regulation (RG) 11.12.2013-28848 [SEA]

Hazard pictograms :

Signal word : Danger

Hazard statements: H220 - Extremely flammable gas
H280 - Contains gas under pressure; may explode if heated.

Precautionary Statements	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read carefully and follow all instructions. P282 - Wear cold insulating gloves and either face shield or eye protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P243 - Take action to prevent static discharges. P336 + P315 - Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice or attention. P377 - Leaking gas fire: Do not extinguish unless leak can be stopped safely. P381 - In case of leakage, eliminate all ignition sources. P410 + P403 - Protect from sunlight. Store in a well-ventilated place.
Contains	Natural gas.
Supplemental label elements	Not applicable.

2.3. Other hazards

May form explosive mixtures with air. The gas can cause asphyxiation without warning by replacing the oxygen in the air. Can cause burns like frostbite.

Does not contain ≥ 0.1% PBT/vPvB substances evaluated according to KKDIK Annex XIII

The mixture does not contain the substance(s) in the list established as having endocrine disrupting properties in accordance with Article 47(e) of KKDIK or has endocrine disrupting properties according to the criteria specified in Commission Authorized Regulation ((EU) 2017/2100 or Commission Regulation (EU) 2018/605). has not been identified.

SECTION 3: Composition / information on ingredients

3.1. Substances

Component	Cas Number EC Number	% (w/w)	Regulation (EC) No. 1272/2008 [CLP]
Natural gas	CAS-No.: 8006-14-2 EC-No.: 232-343-9	100	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

Reportable hazardous constituent(s) contained in UVCB and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

Product/substance	Identifiers	% (w/w)	Regulation (EC) No. 1272/2008 [CLP]
Methane	CAS-No.: 74-82-8 EC-No.: 200-812-7	>85	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Ethane	CAS-No.: 74-84-0 EC-No.: 200-814-8	<10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Propane	CAS-No.: 74-98-6 EC-No.: 200—827-9	<5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Butane	CAS-No.: 106-97-8 EC-No.: 203-448-7	<5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

Full text of H statements: see section 16.

3.2. Mixture

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information	No action shall be taken involving any personal risk or without suitable training. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
After inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe
After skin contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. If frostbite occurs, get medical attention. Do not rub affected area. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent In this case, the casualty should be sent immediately to hospital.
After eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. If frostbite occurs, get medical attention.
After ingestion	As this product is a gas, refer to the inhalation section.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Eye contact; State Gaseous: May cause slight transient irritation. State liquid: Can cause burns like frostbite. Inhalation; May cause respiratory irritation. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Skin contact; State liquid: Can cause burns like frostbite. Ingestion; Not an expected route of exposure.

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

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Use dry chemical, CO_2, water spray (fog) or foam.
Unsuitable extinguishing media:	Do not use water jet. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	Decomposition products may include the following materials: Carbon dioxide (CO_2). carbon monoxide Toxic gases Aldehyde. Soot

5.3. Advice for firefighters

Special protective actions for fire-fighters	If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel; Stop leak if without risk. Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.

For emergency responders If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel"

6.2. Environmental Precautions

Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Small spill / Large spill — Immediately contact emergency personnel. Stop leak if without risk. Use sparkproof tools and explosion-proof equipment.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Chapter 8 for information on personal protective equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures

7.2. Conditions for safe storage, including any incompatibilities

All the electric installations, including the lighting of rooms that may contain this product, must be adapted to the risk area, in compliance with the European ATEX directives. Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

7.3. Specific end uses

Not available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits — No exposure limit value known

Exposure limit values — Butane
Ministry of Labor (France, 5/2021). Notes: Permissible limit values (circulars)
TWA: 800 ppm 8 hours. TWA: 1900 mg/m³ 8 hours

Recommended monitoring procedures — If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN

	14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
DNELs/DMELs	No DNELs/DMELs available.
PNECs	No PNECs available.

8.2. Exposure controls

Appropriate engineering measures	Use only with adequate ventilation. Use explosion-proof ventilation equipment. Before entering storage, tanks and commencing any operation in a confined area, check the atmosphere for oxygen content and flammability. Wear suitable protective clothing, gloves and eye/face protection. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.
Personal protective equipment	
Respiratory protection	None under normal use conditions. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used. In case of inadequate ventilation wear respiratory protection: organic vapor filter (Type AX).
Eye protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields
Hand protection	Cold insulating gloves, Standard: EN 511 Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.
Skin protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
General protective and hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels

SECTION 9: 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form	:	Gas.
Appearance	:	[Liquefied compressed gas.]
Colour	:	Colourless
Odour	:	Odorless.
Odour threshold (ppm)	:	Not applicable.
pH (Value)	:	Not applicable. Product is non-soluble (in water).
Melting Point/ Freezing Point	:	-183°C
Initial boiling point (°C)	:	-166 to -157°C
Flash point (°C)	:	Not applicable.
Auto-ignition temperature	:	>400°C
Decomposition temperature	:	Not applicable.
Flammability	:	Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Vapour Pressure	:	600 to 39000 kPa
Vapour density (Air=1)	:	Not available
Relative density	:	0.54 to 0.66
Solubility (Water)	:	0.024 to 0.061 g/l
Partition coefficient: n-octanol / water	:	≤2.8
Density	:	0.54 to 0.66 g/cm³ [0°C]

Viscosity (mPa. s)	:	Not applicable.
Upper Explosive Limit	:	15 Vol%
Lower Explosive Limit	:	5 Vol%
Explosive properties	:	Not applicable.
Oxidizing properties	:	Not applicable.

9.2. Other information

No other relevant physical and chemical parameters for the safe use of the product

SECTION 10: Stability and Reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see Section 7).

10.3. Possibility of hazardous reactions

Rapid Phase Transition when exposed to water (RPT)

10.4. Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5. Incompatible materials

No specific data.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Natural gas LC50 Inhalation Dusts and mists Rat >800000 ppm 0,25 hours LC50 Inhalation Vapor Rat 40.2 mg/l 1 hour Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Endocrine disrupting properties	This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.
Information on other hazards	There is no additional information

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not available

12.2. Persistence and degradability

Biodegradability; Not readily

12.3. Bioaccumulative potential

LogKow ≤ 2.8

12.4. Mobility in soil

Due to its high volatility, this gas is unlikely to generate soil or water pollution. Air Released into the atmosphere,constituents are rapidly diluted and undergo photodegradation.

12.5. Results of PBT and vPvB assessment

Data are not available.

12.6. Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7. Other adverse effects

Data are not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction
Hazardous waste	The classification of the product may meet the criteria for a hazardous waste.
Waste treatment of containers/packaging	The generation of waste should be avoided or minimized wherever possible. Empty pressure vessels should be returned to the supplier. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN Number				
UN1972	UN1972	UN1972	UN1972	UN1972
14.2. UN proper shipping name				
METHANE, REFRIGERATED LIQUID	METHANE, REFRIGERATED LIQUID	METHANE, REFRIGERATED LIQUID	METHANE, REFRIGERATED LIQUID	METHANE, REFRIGERATED LIQUID
14.3. Transport hazard class(es)				
2	2.1	2.1	2	2

				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
non-environmentally hazardous acc. to the dangerous goods regulations				

14.6. Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7. Maritime transport in bulk according to IMO instruments

Not available.

14.8 Information for each of the UN Model Regulations

ADR/RID

Hazard identification number 223

Limited quantity 0

Special provisions 392

Tunnel code (B/D)

ADN

Special provisions 392

IMDG

Emergency schedules _F-D_, S-U

ICAO/IATA

Quantity limitation Passenger and Cargo Aircraft: Forbidden. Packaging instructions: Forbidden. Cargo Aircraft Only: Forbidden. Packaging instructions: Forbidden. Limited Quantities - Passenger Aircraft: Forbidden. Packaging instructions: Forbidden.

SECTION 15: REGULATORY INFORMATION

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

15.1.1. Local regulations (Turkey)

Regulation on the Carriage of Dangerous Goods by Road published in the Official Gazette dated 24 October 2013 and numbered 28801.

Personal Protective Equipment Regulation published in the Official Gazette dated 1 May 2019 and numbered 30761.

Regulation on Health and Safety Precautions in Working with Chemical Substances published in the Official Gazette dated 12 August 2013 and numbered 28733.

Regulation on Health and Safety Precautions in Working with Carcinogenic or Mutagen Substances published in the Official Gazette dated 6 August 2013 and numbered 28730. Regulation on Detergents published in the Official Gazette dated 27 January 2018 and numbered 30314.

Hazardous chemicals regulation (Official Gazette numbered 21634).

Regulation on health and safety measures in working with chemical substances (28733 Official Gazette).

Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (KKDIK Regulation, Official Gazette dated 23.06.2017 and numbered 30105 (Repeated).

SEA Regulation on classification, labelling, packaging of substances and mixtures. Regulation on Safety Data Sheets Regarding Harmful Substances and Mixtures (Official Gazette dated 13 December 2014 and numbered 29204).

Regulation on Classification, Labelling and Packaging of Substances and Mixtures (SEA Regulation, (Official Gazette dated 11.12.2013 and numbered 28848 (Repeated)))

15.1.2. National regulations

1. List according to Regulation (EC) 1907/2006/EC on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) establishing a European Chemicals Agency.
2. List in accordance with Regulation (EC) No 1272/2008 on the approximation of the laws, regulations and administrative provisions of the Member

States on classification, packaging and labelling of dangerous preparations.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms	
AND	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimation
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
KOD	Chemical oxygen demand (COD)
DMEL	Derived Minimum Impact Level
DNEL	Derived No-Effect Leve
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g., on growth) during a specified time interval
EN	Avrupa Standardı
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LOAEL	Lowest Level of Adverse Impact Observed
NOAEC	No Adverse Effects Concentration
NOAEL	No Adverse Effects Level
NOEC	No Effect Concentration
OECD	Organization for Economic Cooperation and Development
OEL	Occupational Exposure Limit Value
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the international carriage of Dangerous goods by Rail)
SDS	Güvenlik Bilgi Formu

STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
UEL	Upper explosion limit
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation on the Amendment of the “Regulation on Classification, Labeling and Packaging of Substances and Mixtures” published in the (Repeated) Official Gazette dated 11 December 2013 and numbered 31330 and “Regulation on Classification, Labeling and Packaging of Substances and Mixtures” dated 10.12.2020 Classification according to” (SEA).

ECHA (European Chemicals Agency).

List of relevant phrases (code and full text as stated in section 2 and 3)	
Flam. Gas 1	Flammable gas, Category 1
Press. Gas (Comp.),	GASES UNDER PRESSURE - Compressed gas
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

Prepared by Safety Data Sheet:	
Name	Sinem Olcaş
Certificate number	TÜV/11.34.08
Certificate validity date	09/07/2025
Contact information	sinemolcas@gmail.com

Safety Data Sheet (SDS), Turkey