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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/DISTRIBUTOR

1.1. Identity of the Substance/Mixture

Product name: Liquified Petroleum Gas (LPG) – Mix

Product type: Gas/Liquified gas

1.2. Relavant idendified uses of the substance or mixture and uses advised against

Used for fuel purposes in houses and industry. Used as; propellant gas in the aerosol industry, fuel in internal combustion engines and cogeneration systems.

1.3. Information of the supplier of the safety data sheet

| Company name | : PET GAZ A.Ş. |
|-----------------|---|
| Adress | : Yeşilköy Neighb. Çaykara St. No:200/1 Dörtyol/HATAY |
| Telephone | : 0326 734 27 66 |
| Fax | : 0326 734 27 81 |
| E-Mail | : c.kirca@petgaz.com.tr |
| Person concerne | d : Ahmet Cemre KIRCA |

1.4. Emergency Telephone Number

For emergency situations:

National Toxicology Consultation Center (UZEM): 114

Emergency Medical Services: 112

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance and mixture

Physical hazards:

| Flam. Gas 1 | H220 |
|-------------|------|
| Press. Gas | H280 |

Hazards for health:

Not classified as hazardous according to the GHS criteria.

Hazards for environment:

Not classified as hazardous according to the GHS criteria.

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| pared in accordance with ette No. 29204 dated 13.1 | the Regulation on Safety Data Sheets for Hazardous Su | ubstances and Mixt | ures that is pub | lished in the Offici |
| ne of the Substance/Mixtu | | Date of Preparat | ion : 2 | 3.08.2013 |
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| | | | , | - |
| 2.2. Label Elements | | | | |
| Hazard Pictogra | ams: | | | |
| Ū | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | • | | | |
| M/a | - - | | | |
| Warning Staten | | | | |
| | Danger | | | |
| Hazard Stateme | ents: | | | |
| | H 220 : Extremely flammable gas. | | | |
| | H 280 : Contains gas under pressure; m | ay explode if h | neated. | |
| Precaution Stat | | | | |
| | iements: | | | |
| General: | D 102 . Keen out of reach of shildren | | | |
| Drovention | P 102 : Keep out of reach of children. | | | |
| Prevention | | C I I I I I I I I I I | | N |
| | P 210 : Keep away from heat/sparks/op | | | - NO SMOKING |
| | P 243 : Take precautionary measures ag | - | - | |
| | P 280 : Wear protective gloves/clothing | g/eye protectio | on/face prot | ection. |
| Response: | | | | |
| | P 301 + P312 : IF SWALLOWED: Call Na | ational Toxico | ology Cons | ultation Cent |
| | (114) or/and doctor. | | | |
| | · · · · · | | | , |
| | P304+P340 : IF INHALLED Remove pers | son to fresh ai | ir and keep | comfortable f |
| | breathing. | | | |
| | P370+P378 : In case of fire; Use foam, c | | | |
| | P 377 : Leaking gas fire: Do not extingui | | k can be stop | oped safely. |
| | P 381 : Eliminate all ignition sources if s | afe to do so. | | |
| Storage: | - | | | |
| | P 403 : Store in a well-ventilated place. | | | |
| | P 410 + P 403 : Protect from sunlight. Si | tore in a well- | ventilated p | ace. |
| | | | | |
| Disposal: | | | | |
| | | | | |
| | P501 : Dispose of the contents/contained | er in accordan | ce with nati | on regulation |
| | | | | |
| | | | | |
| | | | | |
| • | osive mixture with air at ambient tempera ate in the pit areas where ventilation is in: | | | |

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fact that it is heavier than air.

Intense heating of the LPG tank (bottle) by being exposed to fire and flames may cause the tank (bottle) to explode and the released LPG may inflate and explode by taking oxygen from the environment.

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The liquid leak becomes a gas leak by expanding 248 times.

Eyes: If the gas under pressure evaporates and contacts with the eyes, there may be cold burns and also serious damages on eyes.

Skin: The gas under pressure may evaporate and cause cold burns in case it contacts with the skin. **Inhalation:** It is asphyxiant. Because it is heavier than air at high concentrations, it can cause asphyxia due to the oxygen insufficiency by substituting the oxygen in the environment. At high concentrations; mild headache, dizziness, drowsiness, etc. on the central nervous system may occur or it may cause a serious narcotic effect as a result of the reduction in the oxygen concentration in the atmosphere. Symptoms of oxygen deficiency is deep and frequent breathing, dizziness, headache, nausea or loss of consciousness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| International Chemical Identification | CAS No | EC No | Chemical Composition | % Cons. | Classification |
|---|------------|-----------|---|---------|---------------------------------------|
| Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).] | 68476-85-7 | 270-704-2 | Mainly Butane (C ₄ H ₁₀) and Propane (C ₃ H ₈), and trace amount of other hydrocarbons such as isobutane and propylene (1,3-Butadien content is less than 0.1%.) | %100 | Flam. Gas 1, H220 Press. Gas, H280 |

3.2. Mixtures

No application.

4. FIRST AID MEASURES

4.1. Explanation of first aid measures

After inhalation:

If dizziness, nausea, difficulty in seeing, irritation in the eyes, mouth and throat, remove the victim exposed to LPG breathing to open air and let him rest.

If there is any difficulty in breathing, seek medical attention.

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If the person is not breathing, apply artificial respiration, give oxygen and seek medical attention.

After ingestion:

If only the mouth is contaminated, it should be rinsed with water. If swallowed, the victim must be taken to a doctor without being forcibly regurgitated.

After eye contact:

Immediately wash with plenty of clean water for at least 15 minutes by keeping the eyelids open. Hot water should not be used.

Cover the eye with a sterile pad.

Contact an eye specialist.

After skin contact:

Wash contacted parts immediately with clean warm water. Do not use hot water directly.

Immediately remove the contaminated clothes. As it may be a cold burn, do not forcibly remove the affixed clothes and the like, leave it as it is. Keep away the removed clothes from the ignition sources.

Do not reheat the liquid-contacting extremity rapidly. On the contrary, the heating process must be done slowly.

In important cases, take the patient to a nearby medical center.

4.2. Acute and important symptoms and effects that can be seen later

High concentrations can cause central nervous system depression resulting in headache, dizziness and nausea and continued exposure may result in loss of consciousness or death.

4.3. First signs requiring medical intervention and special treatment

Primary Serious Symptoms:

Headache, dizziness, numbness, lose control of himself (fainting) and being short of breath (asphyxia).

Recommendations for first aid personnel:

In order to enter the area where LPG leakage is present; a full-face protecting, respiratory system supported, head and neck protecting clothes, gloves and protective antistatic shoes should be used against the risks that may arise.

Hard movements in the area where the gas leak has occurred and entering with spark sources (cigarette, mobile phone, torches that are not ex etc.) should be avoided.

Recommendations for physicians:

The treatment should generally be symptomatic and it should be directed at relieving the effects. Apply the same treatment for cold burns as the cold bites.

5. FIREFIGHTING PRECAUTIONS

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5.1. Fire extinguishers

Appropriate fire extinguishing materials, methods:

If possible, the gas flow must first be cut off from the valve.

Both in the closed and in atmosphere-open places, first intervention can be done by the dry chemical powder fire extinguisher and also the fire is put out by whelming.

By effectively cooling the LPG tanks (bottles) by pressurized water (with solid or pulverized nozzles, sprinklers), the fire can be extinguished.

Only in closed areas, fire is extinguished by whelming the fire with an CO2 fire extinguisher.

The tank (bottle) should be covered with a fire blanket or a wet cover and the fire should be extinguished by whelming.

Inappropriate fire extinguishing materials, methods:

Use of foam is unnecessary. (It is preferred for cooling with pressurized water)

It may be dangerous to extinguish the flame if precautions that will immediately prevent the leakage are not taken.

It is more dangerous not to intervene in other surrounding tanks (bottles) when only a full LPG tank (bottle) is being cooled (because empty tanks with gas phase have a risk of explosion in a shorter time compared to full tanks).

5.2. Special hazards caused by the material and the mixture

In case of fire, toxic and effective gases, CO and CO2 formation can be found. Inhalation of such gases is dangerous.

Intense heating of the LPG tank (bottle) by being exposed to fire and flames may cause the tank (bottle) to explode (BLEVE) and the released LPG may inflate and explode by taking oxygen from the environment.

The heated LPG tank's (tube's - except the camping bottle) safety valves open and try to protect the tank (bottle) by releasing the gas and reducing the internal pressure. At this time, the gas released from the safety valve burns from the nearby flames or ignition sources.

If the heated LPG tank (bottle - except the camping bottle) is overturned (upside down) or it is in the opposite position, the liquid will be evacuated from the safety valve, the liquid will pass into the gas state by expanding 248 times and it will both become a bigger flame when it catches up and also make the intervention more difficult. Thus the tanks (bottles) should be kept vertical at all times. Firefighter hooks can be used to keep the overturned LPG tanks upright.

5.3. Recommendations for the fire brigade

Care should always be taken to create an escape route during a fire.

It should be intervened by suitably trained and equipped personnel regarding fires in closed areas. While the personnel intervenes with the fire, they should be protected against the radiant heat via water curtains or behind a water umbrella that is formed by pulverized nozzles.

6. ACCIDENTAL RELEASE MEASURES

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6.1. Personal precautions, protective equipment and emergency procedures

Full face protection, respiratory system supported, head and neck protective clothes, gloves and anti-static boots should be used against risks that may arise. The materials of these clothes must be resistant to heat and fire.

6.2. Environmental Measures

In case of a gas leakage:

The gas leakage can be cut off from its source by turning the valve off.

In the place where the gas leakage has occurred, a security zone is developed, all the spark sources inside are removed, the electricity inside is turned off from the main switch, the road is closed to traffic and the people inside are taken out of this safety circle.

Concentration of the gas in the environment is distributed by ventilation, sweeping, and pulverized water.

Direction of the wind is controlled. According to the progression of the gas leakage, the electricity of the said region is cut off and the road is closed for traffic.

In case of a gas fire:

When intervening the LPG tank (bottle) with water, the firefighting teams should be assisted by creating a safety zone against the explosion in the surrounding.

Contagion to the LPG Tank (bottle): In order to prevent a fire that is around the LPG tank (bottle) enure and heat the LPG tank (bottle); LPG tank (bottle) should be protected via the methods such as cooling, water curtain, sprinklers etc.

6.3. Methods and materials for storage and cleaning up

The places that are contaminated during the liquid leakages are diluted with soil or water and the burning effect is removed. This product has a low flash point and, in the event of a leakage, there is a danger of a serious fire or explosion.

If the leakage is not burning, stop the gas leakage, isolate it from the ignition sources and remove the personnel.

Prevent all static electricity accumulations.

Do not change the position of electrical switches and breakers.

Provide good ventilation.

6.4. References to other sections

For personal protection see section 8. For additional information about the hazards to health see section 11. For the disposal of wastes see section 13.

7. HANDLING AND STORAGE

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7.1. Measures for safe handling

Technical measures:

Gas discharge (gas free) process should be done before performing any operation on the LPG tank (tank) and the fixed depots. Never perform any welding operation on the LPG tanks (bottles) and fixed depots. Arrange the hot-work work permits.

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Working Conditions:

Ventilate the places of use well.

Inspection, cleaning and maintenance operations require critical and serious measures and they should only be done by authorized companies and persons.

Smoking is inhibited at the area of use.

Safety and personal protection equipment should be used.

Clothes to be used should be of the type that do not cause static electric.

Prevention of Fire and Explosions:

LPG is heavier than air. Therefore, LPG accumulation should be prevented in case of a possible leakage. Gas accumulation points should be designed in order to prevent LPG accumulation. No tanks (bottles) and pipes consisting of LPG should be heated with naked flame.

Investigating the leakages:

Investigation of the leakages should be made with soapy water or special leakage control foams. **NEVER USE OPEN FLAMES.**

Special gas detectors can be used.

Recommendations for use:

Devices using LPG should be suitable for the usage design of LPG. A device designed for the usage of gas phase should never be used in liquid phase, and a device designed for the liquid phase should never be used in the gas phase.

Only LPG-compatible and resistant materials must be used in the installation.

The use of materials that can decompose in LPG such as natural rubber should be avoided.

Hoses produced from appropriate materials (neoprene) should be used. Hoses should often be checked for hardening, cracks, softening and the hoses in such cases must be replaced immediately. LPG hoses must be changed every 3 years under all conditions.

The length of the hose between the device and the LPG tank (bottle) must not exceed 150 cm. At the end of use, LPG valves should be turned off.

7.2. Conditions for safe storage including the non-conformances

Storage processes should be done according to TS 1446.

Technical measures:

Electrical and charged materials to be used in the storage processes must be explosion-proof (Ex-Proof).

Storage conditions:

LPG tank (bottle) should not be kept at temperatures above 50°C. There should be no flammable, inflammable or explosive materials that produce fire and sparks

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around the LPG tank (bottle).

There should be no dried grasses, energy lines, pits besides the tanks (bottles) within the safety distance.

It must be stored in well ventilated place.

Materials to avoid:

Avoid to have the LPG tank to contact with strong oxidizing materials.

Avoid from static electricity. Static earthing of the installation and the tank should be done.

The place where the LPG tanks are stored must be ventilated against gas leakages.

They should be protected from sunlight. They should be stored in a well ventilated area.

Packaging Materials:

Only the pressure vessels designed and manufactured for the storage and transportation of LPG should be used.

7.3. Specific end-use

LPG can be used in special industrial and thermal processes and in energy-demanding enterprises and at cold regions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| NAME | Standart | tandart TWA-8 HOURS | | STEL-1 | 5 MIN | NOTES |
|----------------------------|----------|---------------------|-----------|-------------|---------------|-------|
| Petrolium gases, liquified | ACGIH | 1000 ppm | 1750mg/m3 | 1250 ppm | 2180 mg/m3 | |

¹ ACGIH: American Conference of Industrial Hygienists ² TWA: Time Weighted Average

8.2. Exposure controls

Personal Protective Equipments



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Appropriate engineering controls:

In order to keep the LPG concentrations below the explosion limits in case of gas leakages at closed or hollow areas, there should be an air discharge system or other technical measures must be taken. Ensure that the eye washing stations and emergency showers are close to the place where the work area is located.

Personal Protective Measures:

Protection of the Respiratory System: Under normal use, no protection is required for possible leakages, but if the leakage size is large and there is not enough oxygen, a full face-shield respiratory mask should be used.

Protection of hands: Impermeable gloves should be used for LPG deliveries and leather gloves should be used when handling the tanks (bottles).

Protection of eyes: Protective goggles should be used against leakage.

Protection of skin: Where necessary, face protectors, antistatic protective clothes and shoes should be used.

Environmental exposure controls:

In order to prevent the dissemination of gas leakages into the environment, the environment should be controlled by gas detectors.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Approximate Liquid up day processor (15.00 and 1 atm) | | | | | |
|---|--|--|--|--|--|
| Appearance | · | Liquid under pressure (15 °C and 1 atm) | | | |
| | | Both liquid and gas phases are colorless. | | | |
| Odour | : | Although it is normally odorless, it is odorized with special | | | |
| | | mercaptans in order to be noticed in gas leakages. | | | |
| Threshold for odour | : | No application. | | | |
| рН | : | No application. | | | |
| Melting point/freezing point | : | -153 °C | | | |
| Initial Boiling point and boiling | : | -13 °C, -15 °C at 1 atmospheric pressure | | | |
| range | | | | | |
| Flash point | | -74 ⁰ C | | | |
| Evaporation rate | : 1 unit of liquid phase LPG at atmospheric pressure is conver | | | | |
| | | approximately 248 units of gas phase. | | | |
| Flammability (solid, gas) | : | No application. | | | |
| Upper/Lower flammability or | ••• | Lower limit (LEL) = % 1,9 | | | |
| explosive limits | | Upper limit (UEL) = % 9 | | | |
| Vapour pressure | ••• | 1550 kPa Max (TS 1298 EN ISO4256, TS EN ISO 8973) for bottles. | | | |
| | 1430 kPa Max (TS 1298 EN ISO4256, TS EN ISO 8973) for auto | | | | |
| Vapour density : 1,86 kg/m ³ | | 1,86 kg/m ³ (15 °C) | | | |
| Relative density | : | 0,560 kg/m ³ (Liquid) (15 °C) | | | |
| Solubility | : | No application. | | | |

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| Distribution coefficient: n- octanol/water | : | No application. | | |
| Auto Ignition Temperature | : | +400 °C | | |
| Decomposition Temperature | : | No application. | | |
| Viscosity | : | 0,121 cp Liquid (20 ⁰ C) | | |
| Explosive properties | : | No application. | | |
| Oxidising properties | : | Not available. | | |
| | Distribution coefficient: n- octanol/water Auto Ignition Temperature Decomposition Temperature Viscosity Explosive properties | octanol/waterAuto Ignition Temperature:Decomposition Temperature:Viscosity:Explosive properties: | : FO.SEC.006E Nur Page Distribution coefficient: n- octanol/water : No application. Auto Ignition Temperature : +400 °C Decomposition Temperature : No application. Viscosity : 0,121 cp Liquid (20 °C) Explosive properties : No application. | Page No Distribution coefficient: n- : No application. octanol/water : +400 °C Auto Ignition Temperature : +400 °C Decomposition Temperature : 0,121 cp Liquid (20 °C) Explosive properties : No application. |

9.2. Other information

| Miscibility | : No application. | |
|----------------------|--------------------------|--|
| Solubility in oil | : No application. | |
| Conductivity | : No application. | |
| Solubility in Water | : Very slightly soluble. | |
| Critical pressure | : 39 Bar | |
| Critical temperature | : 135 °C | |

10. STABILITY AND REACTIVITY

10.1. Reactivity:

There is no known reactive hazard associated with this product.

10.2. Chemical stability

Stable under ambient temperature.

10.3. Hazardous reactivity possibility

Not polymerized.

10.4. Situations to be avoided

Keep away from heat, sparks and static electricity sources. Gas accumulation in low or closed areas should not be allowed. Warning labels on the tank (bottle) should not be removed. Never weld or braze the empty containers.

10.5. Materials to be avoided

Strong oxidizers (sodium peroxide, sodium chlorate, dichromate or chromates, fluorine, chlorine, bromine, chromic acid, nitric acid) should not be contacted.

10.6. Hazardous decomposition products

As a result of incomplete combustion, dangerous gases containing carbon monoxide (CO) and carbon dioxide (CO_2) develop.

11. TOXICOLOGICAL INFORMATION

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11.1. Information about the toxical effects

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| Acute toxic | : | This product has no known toxicological effects. According to |
|---------------------------------|-----|--|
| | | available data, it is not classified as acute toxic. |
| Skin corrosion/irritation | ••• | Contact with skin may cause cold burns and frost. |
| Serious eye damages/irritation | : | The liquid product can cause serious damage when contacted with |
| | | the eye. |
| Respiratory tract or skin | : | Inhalation of vapors or mist may cause irritation of the respiratory |
| sensitization | | tract. |
| Gamet mutagenicity | : | It is not classified as a mutagen. |
| Cancerogenicity | : | It is not classified as cancerogen. |
| Reproductive toxicity | : | Not classified as reproductively toxic. |
| Specific Target Organ Toxicity- | ••• | High concentrations can cause central nervous system depressior |
| single exposure | | resulting in headache, dizziness and nausea and in case o |
| | | continued respiration, it may result in loss of consciousness and |
| | | or death. |
| Specific Target Organ Toxicity- | : | High gas concentrations will replace the existing oxygen in the air |
| repeated exposure | | loss of consciousness and death can occur suddenly from lack o |
| - | | oxygen. Exposure to very high concentrations of similar material |
| | | has been associated with irregular heart rhythms and heart arrest |
| Aspiration damage | • | Aspiration is not classified as hazardous. |

12. ECOLOGICAL INFORMATION

Due to its evaporation, LPG does not cause soil and water pollution.

12.1. Toxicity

Has no known effect.

12.2. Persistence and degradability

There are no long-term negative effects for the environment.

12.3. Bioaccumulation potential

Has no bioaccumulation potential.

12.4. Soil mobility

It evaporates immediately from the water and soil surface. Mobility is very low.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Has no adverse effects according to the known findings.

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13. DISPOSAL INFORMATION

13.1. Waste treatment methods

Any remaining or unused product in the tank (bottle) should not be tried to be disposed. It must be disposed of by licensed personnel according to the legislation in force.

Tanks (bottles) are in the possession of the distributor company. Empty or unused tanks (bottles) should be returned to the LPG Vendor. Disposal or destruction is within the authority of the distributor company.

Pressurized tanks (bottles) should not be perforated or thrown into fire. Some products may remain in empty containers and may present a fire / explosion hazard as vapor may be present in the container. For this reason, marks or labels on the containers should not be erased. Never weld or braze the empty containers.

14. TRANSPORT INFORMATION

14.1. UN number

| Road (ADR) | : | UN | No. | 1965 |
|--------------------------|---|----|-----|------|
| Railway (RID) | : | UN | No. | 1965 |
| Sea (IMDG) | : | UN | No. | 1965 |
| Intra-Cont. Water (ADNR) | : | UN | No. | 1965 |
| Air (IATA) | : | UN | No. | 1965 |
| | | | | |

14.2. Proper UN shipping name

UN No. 1965 HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. such as mixtures A, A01, A02, A0, A1, B1, B2, B or C

14.3. Transport hazard class(es)

| Road (ADR) | : | 2.1 | |
|--------------------------|---|-----|--|
| Railway (RID) | : | 2.1 | |
| Sea (IMDG) | : | 2.1 | |
| Intra-Cont. Water (ADNR) | : | 2.1 | |
| Air (IATA) | ÷ | 2.1 | |

14.4. Packing group

Road (ADR)

| Road (ADR) | : | Undefined | | | |
|-----------------------------|---|-----------|--|--|--|
| Railway (RID) | : | Undefined | | | |
| Sea (IMDG) | : | Undefined | | | |
| Intra-Cont. Water (ADNR) | : | Undefined | | | |
| Air (IATA) | : | Undefined | | | |
| 14.5. Environmental hazards | | | | | |

: Not available

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| | | (LPG-MIX) | Revision No | 03 |
| | | | Issue Date | 13.05.2020 |

Date of Preparation

Date of rearrangement

: 23.08.2013

· 13 05 2020

Name of the Substance/Mixture : LPG

| F | Form No : FO | : FO.SEC.006E Number of arrangement Page No | | : 13.05.2020 : 03 : 13/15 | | |
|---|---|--|--|---------------------------------|--|--|
| | Sea (IMDG) Intra-Cont. Water (ADNR) Air (IATA) | : | Not a marine pollutant Not available Not available | | | |
| | 14.6. Special precautions for See Chapter 7 | the | user | | | |
| | 14.7. Transport in bulk accor | ding | to Annex II of MARPOL 73 | /78 and the IBC Code | | |

No data.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental legislation specific to the substance or the mixture

Legislation:

- REGULATION ON THE SAFETY DATA SHEETS FOR SUBSTANCES AND MIXTURES that is published in the Official Gazette No. 29204 dated 13.12.2014.
- REGULATION ON THE CLASSIFICATION, LABELLING AND PACKAGING OF THE SUBSTANCES AND MIXTURES that is published in the Official Gazette No. 28848 dated 11.12.2013.
- REGULATION ON THE PREVENTION AND REDUCING THE EFFECTS OF MAJOR INDUSTRIAL ACCIDENTS that is published in the Official Gazette No. 28867 dated 30.12.2013.
- REGULATION ON THE HEALTH AND SAFETY PRECAUTIONS IN WORKING WITH CHEMICAL SUBSTANCES that is published in the Official Gazette No. 28801 dated 12.08.2013.
- REGULATION ON LIMITATIONS AND PROHIBITION OF HAZARDOUS MATERIALS AND MIXTURES that is published in the Official Gazette No. 27092 dated 26.12.2008.
- REGULATION ON THE TRANSPORTATION OF HAZARDOUS MATERIALS VIA HIGHWAY that is published in the Official Gazette No. 28801 dated 24.10.2013.
- REGULATION ON THE TRANSPORTATION OF HAZARDOUS MATERIALS VIA RAILWAYS that is published in the Official Gazette No. 29418 dated 16.07.2015.
- REGULATION ON THE TRANSPORTATION OF HAZARDOUS MATERIALS VIA SEAWAYS that is published in the Official Gazette No. 29284 dated 03.03.2015.
- REGULATION ON THE CONTROL OF THE POLLUTION CAUSED BY THE HAZARDOUS MATERIALS IN THE WATER AND ITS SURROUNDING that is published in the Official Gazette No. 26005 dated 26.11.2005.
- REGULATION ON THE USE OF PERSONAL PROTECTIVE EQUIPMENT AT THE WORK SITES that is published in the Official Gazette No. 28695 dated 02.07.2013.
- No. 6331 LAW OF OCCUPATIONAL HEALTH AND SAFETY that is published in the Official Gazette No. 28339 dated 30.06.2012.

Standards:

| TS 2178 | : Petroleum products - Fuels (Class F) - Liquefied petroleum gases - Specifications | | | | | |
|----------------|--|--|--|--|--|--|
| TS EN 589 + A1 | : Automotive fuels - LPG - Requirements and test methods | | | | | |
| TS 2179 | Liqufied petroleum gases (LPG) - Rules for use | | | | | |
| TS 1445 | : Rules of LPG transportation | | | | | |

| | | Document No | FO.SEC.006E |
|--------|----------------------------------|--------------------|-------------|
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| pergaz | | Revision No | 03 |
| | | Issue Date | 13.05.2020 |

| Name of the Substance/Mixture | | | . LPG | Date of Preparation | . 25.06.2015 |
|--|-------------|---|-----------------------------------|----------------------------|--------------|
| Form No | | | | Date of rearrangement | : 13.05.2020 |
| | | | : FO.SEC.006E | Number of arrangement | : 03 |
| | | | | Page No | : 14/15 |
| TS 1446 : Storage rules of liquefied petroleum gases (LPG) | | | | | |
| TS 1449 : | | | Filling and discharge procedures | s for LPG – Safety require | ements |
| TS EN 13776 : | | | Filling and discharge procedures | s for LPG road tankers | |
| | TS EN 13952 | : | LPG cylinders - Filling procedure | 25 | |
| | | | | | |

16. OTHER INFORMATION

Due to the amendment of the regulations, all pages have been changed.

Abbreviations:

LPG: Liquified Petroleum Gases Mix: Mixture CAS No: Chemical Abstract Service number **EC No :** European Community Number UZEM : National Poision Information Center "Ulusal Zehir Danışma Merkezi" **GHS** : Globally Harmonized System C₃: 3 Carbon C7:7 Karbon C₄H₁₀: Butane C₃H₈: Propane **°C** : Degree Centigrade °F: Degree Fahrenheit **CO**: Carbonmonoxyde CO₂: Carbondioxyde **BLEVE :** Boiling Liquid Expanding Vapor Explosion **Ex-Proof**: Explosion Proof **NIOSH**: National Institute for Occupational Safety and Health (America) **TWA :** Time Weighted Average **IDLH** : Immediately Dangerous to Life and Health (America) **OSHA**: Occupational Safety and Health Administration (America) ppm: Parts per Million mg/m³: Milligrams per Cubic Metre **LEL :** Lower Explosive Limit **UEL**: Uper Explosive Limit Atm : Atmosphere kPa : Kilo Pascal Max: Maximum

Additional Hazard statements:

H 350 : May cause cancer.

H 340 : May cause genetic defects.

Additional Precaution statements:

P 201 : Obtain special instructions before use.

| SAFETY DATA SHEET (LPG-MIX) Page No 15/15 Revision No 03 used Data 13.05.2020 expared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances And Mixtures that is published in the Officiente No. 29204 dated 13.12.2014. Date of Preparation 13.05.2020 mm ko ::FO.SEC.006E Date of Preparation ::3.08.2013 min No ::FO.SEC.006E Date of rearrangement ::13.05.2020 Number of arrangement ::03 Date of rearrangement ::03 P 202 : Do not handle until all safety precautions have been read and understood P 243 : Take precautionary measures against static discharge. P 263 : Avoid contact during pregnancy/while nursing. P 261 : Use personal protective gloves/protective clothing/eye protection/face protection. P 281 : Use personal protective equipment as required. P 308 + P 313 : IF exposed or concerned: Get medical advice/attention. P 405 : Store locked up. P 501 : Dispose of contents/container to In order to ensure the protection of human health and the environment, workers should rece Vocational Qualification Training as required by the Regulation on Vocational Trainings to be Tak in Dangerous and Very Hazardous Workplaces and LPG Filling and Unloading Personnel Train given by TMMOB. Author of the Safety Data Sheet : Ahmet Cemre KIRCA | Delgaz pared in accordance with the Regulation on Safety I ette No. 29204 dated 13.12.2014. ne of the Substance/Mixture : LPG n No : FO.SEC.006E P 202 : Do not har P 243 : Take preca P 263 : Avoid cont P 280 : Wear prot | (LPG-MIX) Data Sheets for Hazardous Substances and Date of Pre Date of rea Number of Page No ndle until all safety precautions h | Revision No Issue Date Mixtures that is public eparation : 23 irrangement : 13 arrangement : 03 : 15 : 15 | 03 13.05.2020 ished in the Official 3.08.2013 3.05.2020 |
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| Validity : 03.03.2023 Certificate No : 01.218.01 Telephone No : 0326 734 27 66 Fax No : 0326 734 27 81 | Occupation | : Chemical Engineer | | |
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| | Telephone No | : 0326 734 27 66 | | |
| E-Mail : c.kirca@petgaz.com.tr | Fax No | : 0326 734 27 81 | | |
| | E-Mail | : c.kirca@petgaz.com.tr | | |
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European Union and the national legislation of the Republic of Turkey by examining the reliable sources available at the time the form is prepared. Without the written usage instructions, this product cannot be used except the purposes specified in Section 1. It is always the responsibility of the user to take the necessary steps to meet the needs of the local rules and the law. The information in this safety data sheet describes the safety precautions required for the product. It should not be considered as a guarantee of product characteristics. PET GAZ A.Ş. will not be held responsible for any damage and / or injury arising from abnormal use of the material, from the applications that are not covered by the recommendations, or from the hazards inherent in the material.