

# SAFETY DATA SHEET

## R125



Form No: UGM.SDS-039  
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According to REACH Regulation (EC) No. 1907/2006

### 1) Identification of the substance/mixture and of the company/undertaking

#### **1.1. Product identifier**

Product Name: R125

Chemical Name: pentafluoroethane

CAS no: 354-33-6

EC no: 206-557-8

Product type and uses: Refrigerant, Industrial or Professional use

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

Relevant identified uses: Refrigerant for Industrial or Professional use

Uses advised against: Consumer use

#### **1.3. Details of the supplier of the safety data sheet**

Supplier address: Cantaş Kimya Sanayi ve Ticaret A.Ş.

Supplier address: Demirciler OSB Mevkii, Gebze V(Kimya) İhtisas OSB, Fatma Börü Caddesi No:5/1  
Dilovası/Kocaeli/Türkiye

Phone Number : 0 (212) 910 12 76

Fax Number : 0 (212) 219 30 61

E-mail address : info@cantaskimya.com

Contact Person : Elif Ekinici

#### **1.4. Emergency telephone number**

Cantaş Kimya : 0 (212) 910 12 60

National Poison Consultation Center Turkey: 114

Emergency Health Services Turkey: 112

Fire Brigade Turkey : 112

### 2) Hazards identification

#### **2.1. Classification of the substance or mixture**

Classification in accordance with (EC) Regulation 1272/2008

Press. Gas liq.; H280

#### **2.2. Label Elements**

Label In Accordance with (EC) No. 1272/2008

Hazard pictograms:

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Signal Word: Warning

Hazard Statements:

H280 Contains gas under pressure; may explode if heated.

Precautionary Statements:

P410+P403 Protect from sunlight. Store in a well-ventilated place.

Supplemental Label Elements:

Contains fluorinated greenhouse gases

### **2.3.Other hazards**

Based on the available data, the product does not contain any PBT (Persistent, Bioaccumulative and Toxic substances) or vPvB (very Persistent and very Bioaccumulative substances) at concentrations exceeding 0.1%

Based on the available data, the product does not contain any endocrine disrupting at concentrations exceeding 0.1%

## **3) Composition/information on ingredients**

### **3.1. Substances**

Product Name: R125

Chemical Name: pentafluoroethane

CAS no: 354-33-6

EC no: 206-557-8

Hazard Classes & Codes In Accordance with CLP ((EC) No. 1272/2008): Press. Gas liq.; H280

### **3.2.Mixtures**

Nonapplicable.

## **4) First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove affected person from danger area, lay him down. Seek medical advice immediately.

#### **After Inhalation:**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply fresh air.

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Irregular breathing/no breathing: Artificial respiration. Call a doctor immediately.

### **After Ingestion:**

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

### **After Skin contact:**

In case of contact with skin wash off immediately with soap and water. Rinse with much water in case of frostbites. Remove clothes only after unfreezing. Cover wounds with sterile dressing. Call a doctor immediately.

### **After Eye contact:**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes. Seek medical assistance.

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

**Inhalation:** Respiratory arrest. Shortness of breath. May be fatal if inhaled.

**Ingestion:** Ingestion of liquid can cause burns similar to frostbite

**Skin contact:** Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite

**Eye contact:** Liquid can cause burns similar to frostbite..

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

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

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## **5) Firefighting measures**

### **5.1. Extinguishing media**

Suitable Extinguishing Equipment: Use an extinguishing agent suitable for the surrounding fire.

The extinguishing equipment should be of the conventional kind: CO<sub>2</sub>, foam, powder and water mist.

Unsuitable extinguishing media: Water jet

### **5.2. Special hazards arising from the substance or mixture**

Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Thermal decomposition products may include the following materials:

carbon dioxide

carbon monoxide

halogenated compounds

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### **5.3. Advice for firefighters**

#### **General Information**

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**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

## **6) Accidental release measures**

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

During the cleanup of leaks, appropriate personal protection (including respiratory protection) must be provided. Do not engage in any activities without proper training or involving personal hazards. Keep unnecessary and unprotected individuals away from the spill. Ensure adequate ventilation. Wear protective clothing as shown in Section 8 of this Safety Data Sheet. Take the precautions written in the Safety Data Sheet for safe handling. Thoroughly cleanse yourself after dealing with a spill. Ensure that procedures and emergency training for the on-site cleanup and disposal of waste are provided. Do not touch or walk on the spilled material. Ensure the oxygen content is > 19.5%.

### **6.2. Environmental precautions**

Prevent the liquid from entering sewage, stormwater drains, basements, or working pits, as it can create a vapor-suppressive atmosphere.

### **6.3. Methods and material for containment and cleaning up**

If it is safe, isolate the leakage source. Allow small leaks to evaporate as long as adequate ventilation is provided. For large leaks: Ventilate the area. Control leaks with sand, soil, or an appropriate absorbent material. Prevent the liquid from entering sewage, stormwater drains, basements, and working pits, as it can create a vapor-suppressive atmosphere.

### **6.4. Reference to other sections**

Retrieve the information related to safe use from the 7th section

For personal protection see section 8.

For waste disposal see section 13.

## **7) Handling and storage**

### **7.1. Precautions for safe handling**

Avoid inhaling vapors at high concentrations. Atmospheric levels should be monitored in accordance with occupational exposure limits.

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Achieve atmospheric concentrations well below the occupational exposure limit with good occupational hygiene practices. Vapor is heavier than air, so at low levels where general ventilation is inadequate, high concentrations may occur. In such cases, ensure adequate ventilation or use appropriate respiratory protective equipment with positive air supply.

Avoid contact with fire and hot surfaces, as corrosive and highly toxic decomposition products may form. Prevent contact between the liquid and the skin and eyes.

Avoid releasing into the atmosphere.

Process Hazards: Liquid refrigerant transfers between refrigerant containers and transfers from systems can generate static electricity. Ensure adequate grounding.

Exercise caution with hydrofluorocarbons (HFCs) and chlorine mixtures unless they may become flammable or reactive under certain conditions. Be cautious to reduce the risk of high-pressure development in systems due to temperature increase when liquid is trapped between closed valves or when containers are overfilled.

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

Requested storage information:

Protect from sunlight. Store in a well-ventilated area.

Keep in a place away from the risk of fire, well-ventilated, and avoid heat sources such as electrical or steam radiators.

Avoid storing near the intake areas of air conditioning units, boiler units, and open drains.

Keep away from incompatible substances (refer to Section 10).

Store only in the original container.

Store the container tightly closed in a cool and well-ventilated environment. Keep the containers upright. Protect the containers from damage. Shield from sunlight. In case of spills, erect a barrier in front of storage facilities to prevent soil and water contamination. The storage area floor should be leak-proof, free of seams, and non-absorbent. Do not expose to temperatures exceeding 50°C/122°F.

Storage class: Compressed gas storage.

### **7.3. Specific end use(s)**

See section 1.2.

## **8) Exposure controls/personal protection**

### **8.1. Control parameters**

Threshold Limit Value (TWA 8-hour): Workplace Exposure Limit (WEL) is 1000 ppm.

DNEL (Derived No Effect Level):

- Workers - Inhalation; systemic effects: 16,444 mg/m<sup>3</sup>
- Consumers - Inhalation; systemic effects: 1,753 mg/m<sup>3</sup>

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PNEC (Predicted No Effect Concentration):

- Freshwater; 0.1 mg/l
- Water, Intermittent release; 1 mg/l
- Sediment (Freshwater); 0.6 mg/l

## 8.2. Exposure controls

**General protective health and sanitary measures:** Provide eye wash stations and safety showers. Do not take contaminated clothing outside the workplace. Wash contaminated clothes before reuse. Clean equipment and work areas daily. Implement good personal hygiene procedures. Wash hands at the end of each shift, before meals, without smoking or using the restroom. Avoid eating, drinking, and smoking during use. Conduct preventive industrial medical examinations. Warn cleaning personnel about the hazardous properties of the product.

### Personal protective equipment:



#### Respiratory Protection:

If the risk assessment indicates the possibility of inhaling air pollution, use respiratory protection compliant with an approved standard. Ensure that all respiratory protective equipment is suitable for the intended use and marked with 'CE'. Pay attention to the proper fit of the respiratory device, and replace the filter regularly. Gas filters and combined filter cartridges should comply with the TS/EN 14387 Standard. Full-face masks with replaceable filter cartridges should comply with the TS/EN 136 Standard. Half or quarter-face respiratory devices with replaceable filter cartridges should comply with the TS/EN 140 Standard.

#### Eye Protection:

If the risk assessment indicates the possibility of eye contact, use eye protection compliant with an approved standard. Personal protective equipment used for eye and face protection should comply with the TS/EN 166 Standard. Unless the risk assessment indicates the need for higher-level protection, use tight-fitting safety glasses.

#### Skin Protection:

If the risk assessment suggests possible contamination of the skin, wear appropriate shoes and additional protective clothing compliant with an approved standard.

#### Hand Protection:

If the risk assessment indicates possible skin contact, use chemical-resistant, waterproof gloves compliant with an approved standard. Choose the most suitable gloves by consulting with the glove

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distributor/manufacturer, who can provide information about the puncture resistance of the glove material. Gloves should comply with the TS/EN 374 Standard for protecting hands against chemicals. Check regularly throughout use if the gloves maintain their protective properties according to the information provided by the glove manufacturer. Replace gloves promptly if any deterioration is detected. It is recommended to change gloves frequently.

Thermal Risks:

Not applicable.

Environmental Exposure Controls:

Containers should be tightly closed when not in use. Refer to Section 7 and Section 13.

Engineering Controls:

Ensure adequate ventilation. Personal, workplace, or biological monitoring may be necessary to determine the effectiveness of ventilation or the need for other control measures and/or the use of respiratory protective equipment. Implement primary methods of process protection, local exhaust ventilation, and other technical controls to minimize employee exposure. If employee exposure cannot be adequately controlled with technical control measures, use personal protective equipment. Ensure regular inspection and maintenance of control measures. Provide training for operators to minimize exposure. Adequate ventilation facilities should be available.

## 9) Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Property	Value
(a) Physical state	Liquefied Gas
(b) Colour	Clear, colorless
(c) Odour	Slight ether like odor
(d) Melting point/freezing point	Information not available
(e) Boiling point or initial boiling point and boiling range	-48.5 °C / -55.4°F
(f) Flammability	Information not available
(g) Lower and upper explosion limit (7)	Information not available
(h) Flash point	Information not available
(i) Auto-ignition temperature	The product does not ignite spontaneously.
(j) Decomposition temperature	Information not available
(k) pH	Neutral
(l) 1) Viscosity	Information not available

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<b>(l) 2) Kinematic viscosity</b>	Information not available
<b>(m) Solubility</b>	39 mg/l (Water) @25°C
<b>(n) Partition coefficient n-octanol/water (log value)</b>	Log pow = 2.3
<b>(o) Vapour pressure</b>	180.4 psia @ 21.1°C 407.7 psia @ 54.4°C
<b>(p) Density and/or relative density</b>	1.21 @ 21.1°C (70°F) (Water= 1)
<b>(q) Relative vapour density</b>	4.2 (air = 1.0)
<b>(r) Particle characteristics</b>	Information not available

## 9.2. Other Information

Property	Value
Volatility	100WT%

9.2.1. Information with regard to physical hazard classes

H280 Contains gas under pressure; may explode if heated

9.2.2. Other safety characteristics

Information not available.

## 10) Stability and reactivity

### 10.1. Reactivity

For more detailed information, please refer to other sections of this part.

### 10.2. Chemical stability

Stable under normal temperature, conditions and recommended use. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

These substances can react with the product: Strong oxidizing agents.

### 10.4. Conditions to avoid

Avoid exposure to high temperatures, heat, sparks, open flames or direct sunlight.

### 10.5. Incompatible materials

Avoid contact with oxidizing agents.

### 10.6. Hazardous decomposition products

When used and stored under recommended conditions, there is no decomposition.

Hydrogen fluoride may be released through thermal decomposition and hydrolysis.

Thermal decomposition and combustion products may also include carbon dioxide (CO<sub>2</sub>) and carbon monoxide (CO) gases.

## 11) Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



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a) Acute toxicity

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Application not available.

b) Skin corrosion/irritation;

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Application not available.

c) Serious eye damage/irritation

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Application not available.

d) Respiratory or skin sensitisation

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Application not available.

e) Germ cell mutagenicity

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Unclassified.

Based on current information, it does not meet the classification criteria.

Genotoxicity - in vitro Ames test: Negative. Cell type: Human lymphocytes

Result: Negative

Method: Mutagenicity (in vitro mammalian cytogenetic test)

Test Method: in vitro chromosome aberration test

Result: Negative

Cell type: Human lymphocytes

Result: Negative

Cell type: Chinese Hamster Ovary Cells

Result: Negative

f) Carcinogenicity

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Application not available.

IARC carcinogenicity: None of the components have been listed or exempted.

g) Reproductive toxicity

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008

Reproductive system toxicity - fertility:

- NOAEL 50,000 ppm, Inhalation, Rabbit Note: Did not show teratogenic effects in animal experiments.

- NOAEL 50,000 ppm, Inhalation, Rat Note: Did not show teratogenic effects in animal experiments.

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Reproductive system toxicity - developmental:

Maternal toxicity: - NOAEL: 50,000 ppm, Inhalation, Rabbit Note: Did not show teratogenic effects in animal experiments. Maternal toxicity: - NOAEL: 50,000 ppm, Inhalation, Rabbit Note: Did not show teratogenic effects in animal experiments.

h) Single Target Organ Toxicity-Single Exposure

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Application not available.

i) Single Target Organ Toxicity- Repeated Exposure

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Application not available.

j) Aspiration hazard.

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008  
Application not available.

#### **11.2. Information on other hazards:**

Based on the available data the product does not contain any other hazards in accordance with Regulation (EC) No 1272/2008.

## **12) Ecological information**

Ecotoxicity: Not considered hazardous to the environment. However, large or frequent spills may have harmful effects on the environment.

#### **12.1. Toxicity**

Not classified.

Mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008

#### **12.2. Persistence and degradability**

Information not available

#### **12.3. Bioaccumulative potential**

Bioaccumulation is not expected.

Log Kow: 1.6

BCF: 3.1

Distribution coefficient Koc: 170

#### **12.4. Mobility in soil**

Information not available

The potential for mobility in soil is moderate

#### **12.5. Results of PBT and vPvB assessment**

According to REACH Regulation (EC) No. 1907/2006

Based on the available data the product does not contain %0,1 or more PBT and vPvB components.

#### **12.6. Endocrine disrupting properties**

Based on the available data the product does not contain substances listed in the Endocrine disruptor assessment list

#### **12.7. Other adverse effects**

Information not available

### **13) Disposal considerations**

#### **13.1. Waste treatment methods**

General Information:

Waste generation should be minimized, or waste generation should be avoided wherever possible. Preferably, the best recovery and recycling practices should be employed. The disposal of this product, process solutions, residues, and by-products should always comply with environmental protection requirements, waste disposal regulations, and the requirements of local authorities. During the handling of wastes, safety measures applied for the product should be considered. Empty containers or residues left in layers can potentially pose hazards.

Waste treatment methods:

Do not discharge into sewers. Residues and non-recyclable products, if disposal is not possible, should be handled with the assistance of a licensed waste disposal facility capable of absorbing and neutralizing acid gases and other toxic processing products. Wastes, residues, empty containers, discarded work clothing, and contaminated cleaning materials should be collected in designated appropriate containers and labeled according to their contents. Waste packaging should be collected for reuse or recycling.

### **14) Transport information**



#### **14.1. UN number or ID number:**

UN No. (ADR/RID) 3220

UN No. (IMDG) 3220

UN No. (ICAO) 3220

UN No. (ADN) 3220

#### **14.2. UN proper shipping name:**

Appropriate shipping name:

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ADR/RID: PENTAFLUROETHANE (REFRIGERANT GAS R 125)  
IMDG: PENTAFLUROETHANE (REFRIGERANT GAS R 125)  
ICAO: PENTAFLUROETHANE (REFRIGERANT GAS R 125)  
ADN: PENTAFLUROETHANE (REFRIGERANT GAS R 125)

### 14.3. Transport hazard class(es):

ADR/RID class: 2.2  
ADR/RID classification code: 2A  
ADR/RID label: 2.2  
IMDG class: 2.2  
ICAO class/division: 2.2  
ADN class: 2.2

**14.4. Packing group:** Not applicable.

**14.5. Environmental hazards:** Non-hazardous.

**Marine Pollutant:** No.

### 14.6. Special precautions for user:

EmS: F-C, S-V  
ADR shipping category: 3  
Emergency action code: 2TE  
Hazard identification number (ADR/RID): 20  
Tunnel restriction code: (C/E)  
Limited quantity (ADR): 120 ml

### 14.7. Maritime transport in bulk according to IMO instruments:

Information not available

## 15) Regulatory information

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

REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) Regulation (EC) No. 1907/2006  
CLP (Classification, Labelling, and Packaging) Regulation (EC) No. 1272/2008  
Seveso Directive (Directive 2012/18/EU)  
Waste Framework Directive (Directive 2008/98/EC)  
Regulation on Persistent Organic Pollutants (Regulation (EU) 2019/1021)  
Biocidal Products Regulation (EU) No 528/2012  
EC Commission Directive (EU) 2000/39/EC dated 8 June 2000.

According to REACH Regulation (EC) No. 1907/2006

Regulation (EU) on fluorinated greenhouse gases (Regulation (EU) 517/2014)

Adhere to the national sanitary and occupational safety regulations when using this product.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## 16) Other information

### 16.1 Revisions

Not applicable

### 16.2 Abbreviations and Acronyms

**PPE:** Personal Protective Equipment

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals

**CLP:** Classification, Labelling and Packaging Regulation

**REACH:** Registration, Evaluation, Authorisation, and Restriction of Chemicals

**SDS:** Safety Data Sheet

**CAS:** Chemical Abstracts Service (followed by a number specific to the chemical)

**EC:** European Commission (followed by a number specific to the chemical)

**H-statements:** Hazard Statements

**P-statements:** Precautionary Statements

**DNEL:** Derived No-Effect Level

**PNEC:** Predicted No-Effect Concentration

**ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road

**RID:** Regulation concerning the International Carriage of Dangerous Goods by Rail

**IMDG:** International Maritime Dangerous Goods code

**IATA:** International Air Transport Association Dangerous Goods Regulations

**MARPOL 73/78:** International Convention for the Prevention of Pollution from Ships. This is the main international convention covering prevention of pollution of the marine environment by ships from operational or accidental causes.

**PBT:** Persistent, Bioaccumulative, and Toxic substances. These are substances that resist degradation, accumulate in organism's tissues, and are toxic.

**vPvB:** very Persistent and very Bioaccumulative substances. These are substances that are even more persistent and bioaccumulative than PBT substances.

### 16.3 Relevant hazard statements and/or precautionary statements (If not stated above)

All statements are stated in Section 2.

### 16.3 Other Information

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The form has been prepared by an expert in accordance with the rules specified in latest Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), by an expert stated on Annex-XVIII of the Turkish Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (Official Gazette Date: 23.06.2017, Official Gazette Number: 30105 Duplicate) who has received a competence certificate from an organization accredited by the Turkish Accreditation Agency (TURKAK) for personnel certification in chemical assessment.

The information contained in this document is based on our knowledge declared on the above-mentioned date. It refers to the single product only and does not carry a particular quality guarantee.

It is the user's responsibility to ensure the appropriateness of this information and to complete it in the indicated suitable manner.

This MSDS replaces or cancels the previous one.

The information in this document should be kept and made readily accessible by the supplier for a period of 10 years.

Prepared by: Yusuf Melek

Chemical Assessment Expert

Certificate Number: NBC/04.24.02

Certificate Date: 12.07.2023

Certificate Validity Date: 12.07.2028

UNSPED CUSTOMS CONSULTANCY

ÜNŞPED GÜMRÜK MÜŞAVİRLİĞİ ve LOJİSTİK HİZMETLER A.Ş

Mobile : (+90) 531 790 7004

Phone : (+90) 444 99 81 / 9760

Web : [www.ugm.com.tr](http://www.ugm.com.tr)

E-mail: [YusufMELEK@ugm.com.tr](mailto:YusufMELEK@ugm.com.tr)