



## **SAFETY DATA SHEET** **MALKARA LIGNITE COAL**

According to Regulation (EU) No 2015/830

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

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

Product name **MALKARA LIGNITE COAL**

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

Identified uses Domestic and industrial uses  
Uses advised against No specific uses advised against are identified.

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

Supplier **AKÇELİK MADENCİLİK TİC. Ve SAN. A.Ş.**  
Hamidiye Mh. İnciçiçeği Sk. No:1/1  
Kağıthane/İST.  
Tel: +90 282 462 60 66  
[www.akcelikmadencilik.com.tr](http://www.akcelikmadencilik.com.tr)

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

Akçelik Madencilik A.Ş.: +90 282 462 60 66

### **SECTION 2: HAZARDS IDENTIFICATION**

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

Classification (EC 1272/2008)  
Physical and Chemical Hazards Not classified.  
Human health STOT RE 2 - H373; Acute Tox. 4 - H302  
Environment Not classified.

The Full Text for hazard statements (H) are displayed in section 16

#### **2.2. Label elements**

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



Signal Word Warning

Hazard Statements  
H302 Harmful if swallowed.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.



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### **Precautionary statements**

P102	Keep out of reach of children.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe dust.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with national regulations.

### **2.3. Other hazards**

This product does not contain any PBT or vPvB substances.  
May cause mechanical eye irritation in case of contact with substance's dust.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1. Substance**

The chemical analysis results for this product are as follows:

Name	CAS No.	EC No.	w/w%(g)
Carbon	7440-44-0	231-153-3	55-65
Hydrogen	1333-74-0	215-605-7	1-5
Sulfur	7704-34-9	231-722-6	0,5 - 1,35
Oxygen	7782-44-7	231-956-9	16-25
Nitrogen	7727-37-9	231-783-9	1,0

### **3.2. Mixtures**

Not applicable.

## **SECTION 4: FIRST AID MEASURES**

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

#### **Inhalation**

Move the exposed person to fresh air at once.  
Get medical attention if any discomfort continues.

#### **Ingestion**

Get medical attention immediately! Rinse mouth thoroughly. DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

#### **Skin contact**

Remove affected person from source of contamination. Remove contaminated clothing. Get medical attention if any discomfort continues.



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### **Eye contact**

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15-20 minutes and get medical attention if any discomfort continues.

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

#### **Inhalation**

May cause slightly irritation to respiratory tract. Avoid to prolonged inhalation of concentrated vapours. Prolonged inhalation of dust increases the likelihood of pulmonary diseases.

#### **Ingestion**

May cause sore throat, nausea, vomiting, headache and unconsciousness in serious cases

#### **Skin contact**

May cause slightly and temporary irritation in case of prolonged contact.

#### **Eye contact**

Avoid to contact with eyes. May cause an irritation.

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

No specific treatment. Treat symptomatically

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Extinguishing media**

Fire can be extinguished using:  
Extinguish with foam, carbon dioxide, dry powder and water

#### **Unsuitable extinguishing media**

None.

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

Dust accumulation from this product may present a fire hazard in the presence of an ignition source. In case of fire, toxic gases may be formed. (COx), (NOx)

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

Avoid breathing fire vapours. Dike and collect extinguishing water.

#### **Protective equipment for fire-fighters**

Face mask, protective gloves and safety helmet. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

For personal protection, see section 8. Avoid inhalation of dust. Avoid dust formation. Avoid contact with eyes and prolonged skin contact. Provide adequate ventilation. Keep away from ignition sources, do not smoke.

### **6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground.

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

Avoid generation and spreading of dust. Clean spillage area. Do not contaminate water sources or sewers



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

For personal protection, see section 8.  
See section 11 for additional information on health hazards.  
For waste disposal, see section 13.

## **SECTION 7: HANDLING AND STORAGE**

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

Keep away from heat, sparks and open flame. Avoid inhalation of vapours/spray and contact with eyes.  
Eliminate all sources of ignition. Do not eat, drink or smoke when using the product.  
Good personal hygiene is necessary.

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

Store in a dry, cool and well-ventilated place.  
Keep away from heat, sparks and open flame.  
Keep away from food, drink and animal feeding stuffs.

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

The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

General dust exposure limits: TWA (8 hours): 10 mg / m<sup>3</sup>.

### **8.2. Exposure controls**

#### **Protective equipment**



#### **Process conditions**

Provide eyewash station.

#### **Engineering measures**

Provide adequate ventilation if Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

#### **Respiratory equipment**

In case of inadequate ventilation use suitable respirator.

#### **Hand protection**

Use appropriate protective gloves

#### **Eye protection**

Use appropriate safety goggles.

#### **Skin protection**

Wear protective clothing in case of contact.



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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Physical State</b>	Solid.
<b>Color</b>	Black.
<b>Odor</b>	Odorless.
<b>Solubility</b>	Not Soluble
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Relative density</b>	No information available.
<b>Vapour pressure</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Decomposition temperature</b>	No information available.
<b>Flash point</b>	Not applicable
<b>Auto Ignition Temperature</b>	850 – 950 °C
<b>Specific gravity</b>	1,3 - 1,4

#### 9.2. Other information

<b>Moisture Analysis</b>	11,16
<b>Ash Ratio</b>	9,36
<b>Volatile Substance</b>	31,57
<b>Sulphur</b>	1,24
<b>Calorie</b>	5781

		Original Basis	Dry Basis
Total Moisture	%	***	***
Inherent Moisture	%	11,16	***
Ash	%	8,32	9,36
Volatile Matter	%	28,05	31,57
Gross Cal. Value	cal/gr	6006	6760
Net Cal. Value	cal/gr	5781	6602
Total Sulphur	%	1,10	1,24

Ash fusion temperature	Unit	Results	Method of Test
initial deformation temperature/deform	centigrade degree	1206	ASTM D 1857
softening temperature /Sphere T.	centigrade degree	1239	ASTM D 1857
fusion temperature /Hemisphere T.	centigrade degree	1287	ASTM D 1857
flow point/Flow T.	centigrade degree	1375	ASTM D 1857



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### **SECTION 10: STABILITY AND REACTIVITY**

#### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

#### **10.2. Chemical stability**

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

#### **10.3. Possibility of hazardous reactions**

No information available.

#### **10.4. Conditions to avoid**

Keep away from ignition sources.

#### **10.5. Incompatible materials**

##### **Materials To Avoid**

Oxidising agents

#### **10.6. Hazardous decomposition products**

Fire may create: toxic gasses.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **11.1. Information on toxicological effects**

##### **Toxicological information**

Additional information can be obtained from the supplier upon request.

##### **Inhalation**

Exposure to high vapor concentrations may produce headache, nausea, vomiting, and other symptoms. Vapors can be irritating to the respiratory tract. Direct contact can be irritating to the skin

##### **Eye contact**

Direct contact may be irritating to the eyes.

##### **Carcinogenicity**

	IARC	NTP	OSHA
<b>Carcinogenicity References:</b>	No	No	No

##### **Specific target organ toxicity – single exposure**

No information available.

##### **Specific target organ toxicity – repeated exposure**

No information available.

##### **Aspiration hazard**

No information available.

##### **Ingestion**

May cause sore throat, irritation, nausea, vomiting, headache and unconsciousness in serious cases.

### **SECTION 12: ECOLOGICAL INFORMATION**

##### **Ecotoxicity**

This product is not dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

#### **12.1. Toxicity**

No data available.



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

There are no data on the degradability of this product.

### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

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

No information.

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

No information available.

### **12.6. Other adverse effects**

No data available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

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

Dispose of waste and residues in accordance with local authority requirements.

## **SECTION 14: TRANSPORT INFORMATION**

### **General**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### **14.1. UN number**

Not applicable.

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

Not applicable.

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

Not applicable.

### **14.4. Packing group**

Not applicable.

### **14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant  
No.

### **14.6. Special precautions for user**

Not applicable.

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## **SECTION 15: REGULATORY INFORMATION**

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

#### **EU Legislation**

- 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. System of specific information relating to Dangerous Preparations. 2001/58/EC.



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### **15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

### **SECTION 16: OTHER INFORMATION**

#### **Information Sources**

This SDS is prepared based on the information received from the product owner.

#### **Revision Comments**

The first issue.

#### **Hazard Statements**

H302 Harmful if swallowed.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

#### **Issued By**

Bülent Özdemir / CRAD Çevre Risk Analiz Denetim ve Eğitim . Hizm. Ltd.Şti.  
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#### **Issued Note**

This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.

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**NBC BELGELENDİRME EĞİTİM LTD. ŞTİ.**

**SERTİFİKA**

**BÜLENT ÖZDEMİR**

Bülent ÖZDEMİR  
Sertifikalı Güvenlik Bilgi  
Formu düzenleyicisi  
gbf@crad.com.tr

T.C. Çevre ve Şehircilik Bakanlığı tarafından 13.12.2014 tarih ve 29204 sayılı Resmi Gazete'de yayınlanan "Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmelik" gereklerine göre oluşturulmuş ve 19.12.2014 tarih, 21408564/135.08/16130 sayılı yazı ile "T.C. Çevre ve Şehircilik Bakanlığı Çevre Yönetimi Genel Müdürlüğü" tarafından onaylanmış M01 no'lu belgelendirme programına uygun olarak

NBC Belgelendirme Eğitim Ltd. Şti.

tarafından yapılan değerlendirme ve 28/02/2015 tarihinde İSTANBUL 'da düzenlenen sınav sonucunda gerekli şartları sağlayarak

## Güvenlik Bilgi Formu Hazırlayıcısı

belgesi almaya hak kazanmıştır.

Bu sertifikanın geçerliliği NBC personel belgelendirme kurallarına uyulması ve yapılacak olan gözetim sonuçlarının olumlu geçmesine bağlıdır. Sertifika geçerlilik kontrolü için "www.nbccert.com / Belgeli Personel Arama" ziyaret ediniz

Sertifika No : 01.40.13

Belge Tarihi : 06.03.2015

Geçerlilik Tarihi : 06.03.2018

Geçerlilik Periyodu : 3 YIL

Bülent ÜNLÜKALAYCI  
Belgelendirme Müdürü