



## SAFETY DATA SHEET ANTIFREEZE SPECIAL

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** ANTIFREEZE SPECIAL

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

**Identified uses** Antifeeze.  
Please look at the Technical Data Sheet of the product for further information.

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

**Supplier**  
OPET FUCHS MADENİ YAĞ SAN. ve TİC. A.Ş.  
Atatürk Organize Sanayi Bölgesi 10006 Sok.  
No:12 35620 Çiğli/İZMİR  
Tel: +90 232 376 78 38  
Fax: +90 232 376 78 39

#### 1.4. Emergency telephone number

**Emergency telephone** UZEM (National Poison Consultancy Center): 114  
Emergency Health Service:112

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H302 Repr. 1B - H360FD STOT RE 2 - H373

**Environmental hazards** Not Classified

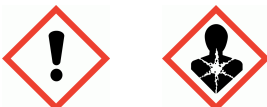
**Human health** Harmful if swallowed, acute lethal hazard. No specific hazards under normal use conditions.

**Environmental** The product is not expected to be hazardous to the environment.

**Physicochemical** The product is not classified as flammable, but at a temperature above the flash point is flammable when exposed to flame sources.

#### 2.2. Label elements

##### Pictogram



**Signal word** Danger

**Hazard statements**  
H302 Harmful if swallowed.  
H360FD May damage fertility. May damage the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

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<b>Precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P314 Get medical advice/ attention if you feel unwell.</p> <p>P330 Rinse mouth.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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**Contains** ethane-1,2-diol, ETHANEDIOL, Disodium tetraborate pentahydrate

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

<b>ethane-1,2-diol</b>		<b>40-60%</b>
CAS number: —		
<b>Classification</b>		
Acute Tox. 4 - H302		
<b>ETHANEDIOL</b>		<b>25-40%</b>
CAS number: 107-21-1		EC number: 203-473-3
<b>Classification</b>		
Acute Tox. 4 - H302		
STOT RE 2 - H373		
<b>Sodium 2-ethylhexanoate</b>		<b>1-5%</b>
CAS number: 19766-89-3		EC number: 243-283-8
<b>Classification</b>		
Repr. 2 - H361d		
<b>Disodium tetraborate pentahydrate</b>		<b>1-5%</b>
CAS number: 12179-04-3		EC number: 215-540-4
<b>Classification</b>		
Eye Irrit. 2 - H319		
Repr. 1B - H360FD		

The full text for all hazard statements is displayed in Section 16.

#### SECTION 4: First aid measures

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

**General information** Not expected to give rise to an acute hazard under normal conditions of use. Get medical attention if any discomfort continues.

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<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Harmful if swallowed, acute lethal hazard. Get medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. Remove affected person from source of contamination. Wash clothing before reuse.
<b>Eye contact</b>	Get medical attention immediately. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes.

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

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

<b>Notes for the doctor</b>	Symptomatic treatment should be applied. In case of excessive inhalation of the product vapor may lead to lung inflammation (chemical pneumonitis). Dermatitis may result from prolonged or repeated exposure.
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### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Use Film-Making Foam Concentrate (A.F.F.F.) to extinguish the burning product. If not available, extinguish with dry chemical powder due to the size of fire. If the product is in pressurized container, cool with water spray jet.
<b>Unsuitable extinguishing media</b>	During a fire, DO NOT extinguish by applying pressurized water and water jet directly on the burning product. Use water fog to cool down.

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

<b>Specific hazards</b>	In case of fire, toxic and corrosive gases may be formed. These gases: Carbondioxide,carbon monoxide,sulphur oxides,phosphorus oxides,metal oxides This product is not explosive.
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#### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	In case of fire, shut off flow if it can be done without risk. Stop leak if safe to do so. Move undamaged containers from fire area if it can be done without risk. Prevent the burning product from entering into drainage system to avoid release of the product. To prevent spreading of the product build-up binders or barriers by using non-burning material such as sand. Use air-supplied respirators to protect against gases/fumes in case of fire-fighting.
<b>Special protective equipment for firefighters</b>	Fire-fighting should be done by trained personnel. Special protective full-clothing, air-supplied respirator, gloves and protective goggles should be worn. Dry chemical sand used for fire extinguishing and other fire extinguishing equipment should meet the national and international standards.

### SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	In case of spills, beware of slippery floors and surfaces. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. For personal protection, see Section 8. Do not smoke,use open fire or other sources of ignition. Wear protective gloves and (in case of splashes) goggles/face shield too.
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#### **6.2. Environmental precautions**

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**Environmental precautions** Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. To prevent release, place container with damaged side up. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to local appropriate regulatory body. Empty container contains product residue which may exhibit hazards of product.

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

**Methods for cleaning up** Large Spillages: Stop leak if possible without risk. DO NOT touch spilled material! Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform authorities if large amounts are involved. Small Spillages: Stop leak if possible without risk. Dam and absorb spillage with sand, sawdust or other absorbent. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

### 6.4. Reference to other sections

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Container must be kept tightly closed when not in use. Protect against direct sunlight. Avoid spilling, skin and eye contact. Avoid eating, drinking and smoking when using the product.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. Store in closed original container at temperatures between 0°C and 50°C.

**Storage class** Not special storage precautions required.

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

#### SECTION 8: Exposure Controls/personal protection

##### 8.1. Control parameters

##### Occupational exposure limits

##### ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 104 mg/m<sup>3</sup>(Sk)

WEL = Workplace Exposure Limit

##### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Provide adequate ventilation.

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

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<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
<b>Other skin and body protection</b>	Wear steel toe-cap shoes. Wear an apron.
<b>Hygiene measures</b>	Provide eyewash station. Do not smoke in work area. Wash hands after contact. Promptly remove non-impervious clothing that becomes contaminated. Contaminated clothing should be placed in a closed container for disposal or decontamination. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: High-efficiency particulate filter.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Clear Liquid
<b>Colour</b>	mavi-yeşil
<b>Odour</b>	Mild.
<b>pH</b>	pH (diluted solution): 7.2 %50
<b>Melting point</b>	-37 (%50), -17 (%33)°C
<b>Initial boiling point and range</b>	165°C
<b>Flash point</b>	230 °C
<b>Vapour density</b>	>1
<b>Bulk density</b>	1,122 kg/l
<b>Solubility(ies)</b>	Soluble in water.
<b>Comments</b>	Values are typical. These values may be variable within the product specification.

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures. Mixing with any other material.

#### 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid freezing. Avoid contact with strong oxidising agents. Avoid exposure to high temperatures or direct sunlight.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

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**Hazardous decomposition products** Does not decompose when used and stored as recommended. Heating may generate the following products: Toxic and corrosive gases or vapours. Thermal decomposition or combustion products may include the following substances: Carbondioxide,carbon monoxide,sulphur oxides,phosphorus oxides,metal oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Other health effects** No data available to indicate product or any components are carcinogenic,mutagenic,genotoxic,and chronic health hazards.

**Acute toxicity - oral**

**ATE oral (mg/kg)** 533.34

**General information** Information given is based on a knowledge of the components and the toxicology of similar products.

**Inhalation** Not expexted to cause irriation. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

**Ingestion** Harmful if swallowed.

**Skin contact** Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.

**Eye contact** Not expexted to cause eye irriation. Vapors formed from heating may cause eye irriation.

**Route of entry** Inhalation,ingestion,skin,eye contact.

**Target organs** Skin,eyes,respiratory system,lungs,gastro-intestinal tract.

### SECTION 12: Ecological Information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

#### 12.1. Toxicity

#### 12.2. Persistence and degradability

#### 12.3. Bioaccumulative potential

#### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

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

#### 12.6. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Empty packages and wastes produced after the usage of the product should be taken under control according to the current environmental regulations. Unless otherwise noted all wastes should be evaluated as hazardous waste.

**Disposal methods** Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

**Waste class** 16 01 14 : Tehlikeli Maddeler içeren antifriz sıvıları 15 01 10 : Tehlikeli maddelerin kalıntılarını içeren ya da tehlikeli maddelerle kontamine olmuş ambalajlar

### SECTION 14: Transport information

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**General** The product is not covered by international regulations 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)

No transport warning sign required.

### 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 MARPOL and the IBC Code

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

## 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 (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment

## SECTION 16: Other information

#### **General information**

All ingredients are listed in the European Inventories. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This data sheet is a safety data sheet according to 91/155/EU. For products which are not subject to classification according to EU lists this data sheet is made on a voluntary base.

#### **Key literature references and sources for data**

December 13, 2014, No. 29204, "the Ministry of Environment and the Ministry of Urban Development Related to Safety Data Sheets on Hazardous Substances and Mixtures Direction"

#### **Revision comments**

It has been revised according to the 1272/2008 CLP regulation.

**ANTIFREEZE SPECIAL**

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<b>Revision date</b>	11/12/2015
<b>Revision</b>	3
<b>Supersedes date</b>	29/12/2010
<b>SDS number</b>	OPET.GBF.1002
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H319 Causes serious eye irritation. H360FD May damage fertility. May damage the unborn child. H361d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

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