



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

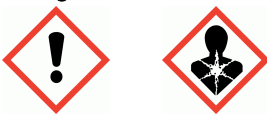
Human health Harmful if swallowed Contains a substance/a group of substances which may damage fertility and the unborn child. Uzun süreli veya tekrarlı maruz kalma sonucu organlarda hasara yol açabilir.

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

ANTIFREEZE SPECIAL

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.
Precautionary statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P308+P313 IF exposed or concerned: Get medical advice/ attention. P314 Get medical advice/ attention if you feel unwell. P330 Rinse mouth. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
Contains	ETHANEDIOL, Disodium tetraborate pentahydrate

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANEDIOL	80-95%
CAS number: 107-21-1 EC number: 203-473-3	
Classification Acute Tox. 4 - H302 STOT RE 2 - H373	
Sodium 2-ethylhexanoate	1-5%
CAS number: 19766-89-3 EC number: 243-283-8	
Classification Repr. 2 - H361d	
Disodium tetraborate pentahydrate	1-5%
CAS number: 12179-04-3 EC number: 215-540-4	
Classification 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.
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

ANTIFREEZE SPECIAL

Ingestion	Harmful if swallowed, acute lethal hazard. Get medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.
Skin contact	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.
Eye contact	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

General information	Üremeye zarar verebilir. Doğmamış çocukta hasara yol açabilir.
Inhalation	May be harmful if inhaled.
Ingestion	Harmful if swallowed.
Skin contact	May be harmful in contact with skin.
Eye contact	No specific symptoms known.

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

Notes for the doctor	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

Suitable extinguishing media	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.
Unsuitable extinguishing media	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

Specific hazards	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

Protective actions during firefighting	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.
Special protective equipment for firefighters	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

Personal precautions	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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ANTIFREEZE SPECIAL

6.2. Environmental precautions

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

Reference to other sections For handling and storage, see section 7. For personal protection, see Section 8. For waste disposal, see Section 13.

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/m³(Sk)

Short-term exposure limit (15-minute): WEL 104 mg/m³(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.

ANTIFREEZE SPECIAL

Hand protection	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.
Other skin and body protection	Wear steel toe-cap shoes. Wear an apron.
Hygiene measures	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.
Respiratory protection	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

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

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures. Mixing with any other material.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Stable under normal conditions. Under normal conditions of storage and use, no hazardous reactions will occur.
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10.4. Conditions to avoid

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

ANTIFREEZE SPECIAL

Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

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

Acute toxicity - oral

ATE oral (mg/kg) 536.68

Reproductive toxicity

Reproductive toxicity - fertility Contains a substance/a group of substances which may damage fertility.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Uzun süreli veya tekrarlı maruz kalma sonucu organlarda hasara yol açabilir.

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

General information

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

Inhalation

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. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact

Not expected to cause eye irritation. Vapors formed from heating may cause eye irritation.

Acute and chronic health hazards

May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

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

Toxicity There is no specific test data available

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No specific test data are available.

12.4. Mobility in soil

Mobility The product is soluble in water.

ANTIFREEZE SPECIAL

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment There is no specific test data available.

12.6. Other adverse effects

Other adverse effects No information required.

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

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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

ANTIFREEZE SPECIAL

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

No chemical safety assessment has been carried out.

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 Revised classification.

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Revision 4

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SDS number OPET.GBF.1002

Hazard statements in full 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.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information contained in this data sheet. OPET FUCHS MADENI YAG SAN. VE TIC. A.Ş. shall not be responsible for any injury or damage resulting from the abnormal use of the product, recipient assumes all such risks.