



## SAFETY DATA SHEET CAM SUYU ANTIFRIZI (-18C)

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** CAM SUYU ANTIFRIZI (-18C)

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

**Identified uses** Antifreeze liquid.

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

**Supplier** PETROL OFİSİ A.Ş.  
Ünalan Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ İstanbul  
Tel: +90 850 339 1919  
Fax: +90 216 275 3854  
madeniyag@petrolofisi.com.tr

#### 1.4. Emergency telephone number

**Emergency telephone** Madeni Yağ Müşteri Hizmetleri: 0850 339 19 19 (mesai saatleri)

### SECTION 2: Hazards identification

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

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

**Physical hazards** Flam. Liq. 2 - H225

**Health hazards** Not Classified

**Environmental hazards** Not Classified

**Human health** Contains a substance/a group of substances which may damage the unborn child.

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

**Physicochemical** The product is highly flammable. Vapours may form explosive mixtures with air.

#### 2.2. Label elements

##### Hazard pictograms



**Signal word** Danger

**Hazard statements** H225 Highly flammable liquid and vapour.

## CAM SUYU ANTIFRIZI (-18C)

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautionary statements</b> | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 2.3. Other hazards

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

##### 3.2. Mixtures

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| <b>ETHANOL</b>                                                                          | <b>40-60%</b>        |
| CAS number: 64-17-5                                                                     | EC number: 200-578-6 |
| <b>Classification</b><br>Flam. Liq. 2 - H225                                            |                      |
| <b>PROPAN-2-OL</b>                                                                      | <b>1-5%</b>          |
| CAS number: 67-63-0                                                                     | EC number: 200-661-7 |
| <b>Classification</b><br>Flam. Liq. 2 - H225<br>Eye Irrit. 2 - H319<br>STOT SE 3 - H336 |                      |

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

**Composition comments**      The data shown are in accordance with the latest EC Directives.

#### SECTION 4: First aid measures

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

|                            |                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | Get medical attention if any discomfort continues.                                                                                                                                                                                                                                                                                                                  |
| <b>Inhalation</b>          | Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.                                                                                                 |
| <b>Ingestion</b>           | Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. |
| <b>Skin contact</b>        | Immediately remove contaminated clothing. Rinse immediately with plenty of water. Remove contaminated clothing.                                                                                                                                                                                                                                                     |
| <b>Eye contact</b>         | Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.                                                                                                                                                                                                   |

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

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

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with the following media: Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc. Do not use water, if avoidable.

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

**Specific hazards** The product is highly flammable. Vapours may form explosive mixtures with air. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

##### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

#### SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. In case of spills, beware of slippery floors and surfaces.

##### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

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

**Methods for cleaning up** Keep combustible materials away from spillage. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

##### 6.4. Reference to other sections

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Do not wear contact lenses. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Eye wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapours will be emitted. 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. Keep only in the original container.

**Storage class** Flammable liquid storage.

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

#### SECTION 8: Exposure controls/Personal protection

##### 8.1. Control parameters

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### Occupational exposure limits

#### **ETHANOL**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

#### **PROPAN-2-OL**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### **Ingredient comments**

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

#### **Protective equipment**



#### **Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

#### **Eye/face protection**

Contact lenses should not be worn when working with this chemical. The following protection should be worn: Chemical splash goggles.

#### **Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

#### **Other skin and body protection**

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower.

#### **Hygiene measures**

Provide eyewash station. Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

### **SECTION 9: Physical and chemical properties**

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

|                  |                                |
|------------------|--------------------------------|
| Appearance       | Liquid.                        |
| Colour           | Blue-green.                    |
| Odour            | Characteristic.                |
| pH               | pH (diluted solution): 7-11 50 |
| Flash point      | 110°C OC (Open cup).           |
| Relative density | 0.9525 g/ml @ 20°C             |

#### 9.2. Other information

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

#### 10.2. Chemical stability

**Stability** No particular stability concerns.

#### 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

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### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

|                                         |                                                                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | Oxides of carbon. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

|                     |                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. |
| <b>Ingestion</b>    | Gastrointestinal symptoms, including upset stomach.                                                                                            |
| <b>Skin contact</b> | Repeated exposure may cause skin dryness or cracking. Irritating to skin.                                                                      |
| <b>Eye contact</b>  | Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.                                                  |

## **SECTION 12: Ecological information**

|                    |                                                                 |
|--------------------|-----------------------------------------------------------------|
| <b>Ecotoxicity</b> | 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

|                 |                                  |
|-----------------|----------------------------------|
| <b>Mobility</b> | 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

|                            |                                                                                                                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. The packaging must be empty (drop-free when inverted). Do not puncture or incinerate, even when empty.                                        |
| <b>Disposal methods</b>    | Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion. |

## **SECTION 14: Transport information**

### 14.1. UN number

|                         |      |
|-------------------------|------|
| <b>UN No. (ADR/RID)</b> | 1993 |
| <b>UN No. (IMDG)</b>    | 1993 |
| <b>UN No. (ICAO)</b>    | 1993 |

### 14.2. UN proper shipping name

|                                       |                                                         |
|---------------------------------------|---------------------------------------------------------|
| <b>Proper shipping name (ADR/RID)</b> | FLAMMABLE LIQUID, N.O.S. (ETHANOL, 2-METHYLPROPAN-2-OL) |
| <b>Proper shipping name (IMDG)</b>    | FLAMMABLE LIQUID, N.O.S. (ETHANOL, 2-METHYLPROPAN-2-OL) |

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**Proper shipping name (ICAO)** FLAMMABLE LIQUID, N.O.S. (ETHANOL, 2-METHYLPROPAN-2-OL)

**Proper shipping name (ADN)** FLAMMABLE LIQUID, N.O.S. (ETHANOL, 2-METHYLPROPAN-2-OL)

### 14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID label 3

IMDG class 3

ICAO class/division 3

Transport labels



### 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS F-E, S-E

Emergency Action Code •3YE

Hazard Identification Number 33  
(ADR/RID)

Tunnel restriction code (D/E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

## SECTION 15: Regulatory information

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

**National regulations** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
EH40/2005 Workplace exposure limits.

### 15.2. Chemical safety assessment

## SECTION 16: Other information

**Key literature references and sources for data** This SDS is prepared based on the information received from raw material suppliers.

**Revision comments** This is first issue.

**Issued by** Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)

**Supersedes date** 16/10/2019

## CAM SUYU ANTIFRIZI (-18C)

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>SDS number</b>                | 20588                                                                                                                      |
| <b>Hazard statements in full</b> | H225 Highly flammable liquid and vapour.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness. |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.