

CAM SUYU ANTIFRIZI (-18C)

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

1.1 - Product identifier

Trade name/designation CAM SUYU ANTIFRIZI (-18C)

Chemical name

Product-type Mixture

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

Relevant identified uses

- Antifreeze fluid.
- Special product for automotive industry.

Uses advised against

- The uses are provided in Section 1.2. Other uses are not recommended unless a risk assessment is carried out, prior to commencement of that use, which demonstrates that the is safe.
- Do not use for products which come into direct contact with the skin.
- Food additives
- Do not use for products which come into contact with the food stuffs.
- Do not use for private purposes (household).

1.3 - Details of the supplier of the safety data sheet

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

1.4 - Emergency telephone number

- National Poisons Information Service of England: <http://npis.org> -
NHS 111: dial 111 United Kingdom

- Company phone number (see section 1.3).

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	Flammable liquid and vapour. - Category 3
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2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : Warning

Hazard pictograms



CAM SUYU ANTIFRIZI (-18C)

Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P370+P378 In case of fire: Use alcohol-resistant foam/Carbon dioxide (CO₂)/dry powder/Water spray jet for extinction.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an appropriate recycling or disposal facility in accordance with national regulation.

EUH-phrases : None

2.3 - Other hazards

PBT-substance. - The substances in this mixture do not meet the PTB/vPvB criteria of REACH annex XIII.

vPvB-substance. - The substances in this mixture do not meet the PTB/vPvB criteria of REACH annex XIII.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Specific concentration limit
Methanol	CAS No. : 67-56-1 Index No. : 603-001-00-X EC No. : 200-659-6	30	Acute Tox. 3 Dermal - H311 Acute Tox. 3 Inhalation - H331 Acute Tox. 3 Oral - H301 Flam. Liq. 2 - H225 STOT SE 1 - H370	STOT SE 1 - H370 : 10<=100 STOT SE 2 - H371 : 3<=10

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation

- Remove victim out of the danger area.
- Remove casualty to fresh air and keep warm and at rest.
- When in doubt or if symptoms are observed, get medical advice.

Following skin contact

- Remove victim out of the danger area.
- Remove contaminated, saturated clothing immediately.
- After contact with skin, wash immediately with plenty of water and soap.
- When in doubt or if symptoms are observed, get medical advice.

After eye contact

- Remove affected person from the danger area and lay down.
- Protect uninjured eye.

CAM SUYU ANTIFRIZI (-18C)

- In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

- Rinse mouth thoroughly with water.
- Do not leave affected person unattended.
- Seek medical advice immediately.
- Do NOT induce vomiting.
- When in doubt or if symptoms are observed, get medical advice.

4.2 - Most important symptoms and effects, both acute and delayed

Symptoms and effects - Following inhalation

- In case of excessive or prolonged exposure:
- Headache
- May cause drowsiness or dizziness.

Symptoms and effects - Following skin contact

- Dryness.
- Prolonged contact may be irritating to skin.
- May cause skin sensitisation and allergic reactions in sensitive people.

Symptoms and effects - After eye contact

- Itching.
- Redness.
- Mild eye irritation.

Symptoms and effects - After ingestion

- Dizziness
- Vomiting
- Nausea

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

- No information available.
- Treat symptomatically.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Water mist
- Carbon dioxide (CO₂)
- Alcohol resistant foam

Unsuitable extinguishing media

- Strong water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- In case of fire hazardous decomposition products may be formed, such as: Carbon monoxide, Carbon dioxide (CO₂).
- In case of combustion, emission of toxic fumes.
- Heat leads to pressure build-up and risk of explosion.
- May form flammable vapour-air mixture.

CAM SUYU ANTIFRIZI (-18C)

Hazardous decomposition products

- Formation of CO and CO₂ in the event of combustion (carbon monoxide - carbon dioxide).

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Co-ordinate fire-fighting measures to the fire surroundings.
- Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Remove all sources of ignition.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Caution: Spreads are slippery

For emergency responders

- Provide adequate ventilation.
- If it can be done without risk, stop the source of leakage.
- Use personal protection equipment.
- Mittens.
- Spectacles.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Take precautionary measures against static discharges.
- Use only antistatically equipped (spark-free) tools.
- Use appropriate techniques such as non-flammable absorbent materials or pumping.
- Where possible or appropriate, scrape off the soil contaminated by the product from the area.
- In case of spillage of a heated substance, allow it to cool down before proceeding with disposal methods.

6.2 - Environmental precautions

- Ensure waste is collected and contained.
- Do not allow to enter into surface water or drains.
- Prevent entry into sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- Build a dam around the spill to prevent it from spreading to the surrounding area.
- Soak up inert absorbent and dispose as waste requiring special attention.

Methods and material for cleaning up

- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Ventilate affected area.
- Clear contaminated areas thoroughly.
- Clean contaminated articles and floor according to the environmental legislation.

CAM SUYU ANTIFRIZI (-18C)

- Waste for disposal is to be classified and labelled.
- Collect in closed and suitable containers for disposal.
- Ask manufacturer for recycling information.

Inappropriate techniques

- Never return spills to original containers for reuse.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8
- Safe handling: see section 7
- See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- It is recommended to design all work processes always so that the following is excluded: Eye contact
- Ensure sufficient ventilation.
- Keep away from sources of ignition - No smoking.
- Do not spray on naked flames or any incandescent material.
- Wear anti-static footwear and clothing
- Vapours can form explosive mixtures with air.
- Do not breathe vapors, aerosols, mists.

Advices on general occupational hygiene

- Avoid contact with skin, eyes and clothes.
- Wash contaminated clothing prior to re-use.
- Immediately remove any contaminated clothing, shoes or stockings.
- Wash hands before breaks and after work.
- If exposure limits have not been observed maintain airborne levels at an acceptable level. Provide eye wash station and safety shower.

7.2 - Conditions for safe storage, including any incompatibilities

- Keep/store only in original container.
- Keep container tightly closed in a cool, well-ventilated place.
- Ensure adequate ventilation of the storage area.
- Protect against: Heat
- Keep away from: Food and feedingstuffs
- Keep away from: strong acids and strong oxidants.
- Protect from direct sunlight.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- Floors should be impervious, resistant to liquids and easy to clean.
- Storage class : Flammable liquids

7.3 - Specific end use(s)

- See section 1.2 of the SDS.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

CAM SUYU ANTIFRIZI (-18C)

Methanol (67-56-1)

IOELV TWA mg/m ³ (UE)	260 mg/m ³ Skin
IOELV TWA ppm (UE)	200 ppm Skin
TWA EH40 ppm (UK)	200 ppm
TWA EH40 mg/m ³ (UK)	266 mg/m ³
STEL EH40 ppm (UK)	250 ppm
STEL EH40 mg/m ³ (UK)	333 mg/m ³

8.2 - Exposure controls

Appropriate engineering controls

- Do not eat, drink or smoke during use.
- Ensure adequate ventilation.
- Remove all sources of ignition. Take special precautions to avoid static electricity charges. No open flames. NO SMOKING.
- Use only antistatically equipped (spark-free) tools.
- Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

- Lab coat.
- Eye protection
 - Tight-fitting goggles.
 - In case of risk of splashes: Goggles with side-shields.
 - EN 166
- Protective gloves
 - Chemical resistant gloves conforming to EN 374.
 - Wear suitable chemical resistant gloves.
 - Nitrile rubber
 - PVA (Polyvinyl alcohol).
 - Protective apron.
- Suitable protective clothing: Protective apron
- Use only respiratory protection equipment with CE-symbol including four digit test number.



Environmental exposure controls

- It is important to test emissions from ventilation systems or process equipment to ensure that they comply with the requirements of environmental protection legislation.
- Containers should be kept tightly closed when not in use.
- The floor of the storage room should be impermeable to prevent leakage of liquids.

CAM SUYU ANTIFRIZI (-18C)

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	Blue-green.	<u>Odour</u>	characteristic
Odour threshold		No information available.	
pH		6,5 < V < 8	
Melting point		No information available.	
Freezing point		No information available.	
Boiling point		No information available.	
Flash point		> 23 °C Pensky Martens closed cup	
Evaporation rate		No information available.	
flammability		No information available.	
Lower explosion limit		No information available.	
Upper explosion limit		No information available.	
Vapour pressure		No information available.	
Vapour density		No information available.	
Relative density		No information available.	
Density		0,95 g/ml @20°C	
Solubility (Water)		Soluble	
Solubility (Ethanol)		Soluble	
Solubility (Acetone)		No information available.	
Solubility (Organic solvents)		No information available.	
Log KOC		No information available.	
Auto-ignition temperature		No information available.	
Decomposition temperature		No information available.	
Kinematic viscosity		No information available.	
Dynamic viscosity		No information available.	

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	Undetermined
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

- No data available.

CAM SUYU ANTIFRIZI (-18C)

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- Direct rays of the sun. Extremely high or extremely low temperatures. Open flame. Overheated. Heat. Sparks.
- In case of warming: Ignition hazard
- In case of warming: Danger of bursting container.

10.5 - Incompatible materials

- Strong oxidizing agents
- Organic peroxides
- Strong alkalis.
- Strong acids.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.
- Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation gas (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- The product has not been tested.
- Based on available data, the classification criteria are not met.

Skin corrosion/irritation - Not classified

- Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation - Not classified

- Based on available data, the classification criteria are not met.

CAM SUYU ANTIFRIZI (-18C)

Respiratory or skin sensitisation

- Not classified

- Based on available data, the classification criteria are not met.

Germ cell mutagenicity

- Not classified

- Based on available data, the classification criteria are not met.

Carcinogenicity

- Not classified

- Based on available data, the classification criteria are not met.

Reproductive toxicity

- Not classified

- Based on available data, the classification criteria are not met.

STOT-single exposure

- Not classified

- Based on available data, the classification criteria are not met.

STOT-repeated exposure

- Not classified

- Based on available data, the classification criteria are not met.

Aspiration hazard

- Not classified

- Based on available data, the classification criteria are not met.

11.2 - Information on other hazards

- This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- The product has not been tested.

- Based on available data, the classification criteria are not met.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

- Depending on the ingredients in the product, easy biodegradation is expected.

CAM SUYU ANTIFRIZI (-18C)

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No information available.

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- The product contains volatile components.
- Soluble in water.

12.5 - Results of PBT and vPvB assessment

- The substances in this mixture do not meet the PTB/vPvB criteria of REACH annex XIII.
- The substances in this mixture do not meet the PTB/vPvB criteria of REACH annex XIII.

12.6 - Endocrine disrupting properties

- This product does not have endocrine disrupting properties.

12.7 - Other adverse effects

- No data available.
- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

- | | |
|--------------------------------|---|
| <u>Waste treatment methods</u> | <ul style="list-style-type: none">- Dispose of waste according to applicable legislation.- Handle contaminated packages in the same way as the substance itself.- Empty containers may contain flammable or explosive vapors.- Do not burn empty drums or expose them to a torch.- Waste containing hazardous substances. |
|--------------------------------|---|

- | | |
|------------------------|---|
| <u>Sewage disposal</u> | <ul style="list-style-type: none">- Do not empty into drains.- Do not allow to enter into surface water or drains. |
|------------------------|---|

- | | |
|--|---|
| <u>Special precautions for waste treatment</u> | <ul style="list-style-type: none">- Consult the appropriate local waste disposal expert about waste disposal.- Waste for disposal is to be classified and labelled.- Packaging empty can contain flammable or explosive vapours.- Do not mix with other wastes.- For recycling, contact manufacturer.- Do not burn empty drums or expose them to a torch.- Do not pierce or burn, even after use. |
|--|---|

- | | |
|---|---|
| <u>Community or national or regional provisions</u> | <ul style="list-style-type: none">- Dispose of waste according to applicable legislation. |
|---|---|

SECTION 14: Transport information

14.1 - UN number or ID number

CAM SUYU ANTIFRIZI (-18C)

UN number (ADR) : UN1993
UN number (RID) : UN1993
UN number (ADN) : UN1993
UN number (IMDG) : UN1993
UN number (IATA) : UN1993

14.2 - UN proper shipping name

UN proper shipping name (ADR) : FLAMMABLE LIQUID, N.O.S.(propan-2-ol)
UN proper shipping name (RID) : FLAMMABLE LIQUID, N.O.S. (propan-2-ol)
UN proper shipping name (ADN) : FLAMMABLE LIQUID, N.O.S. (propan-2-ol)
UN proper shipping name (IMDG) : FLAMMABLE LIQUID, N.O.S. (propan-2-ol)
UN proper shipping name (IATA) : FLAMMABLE LIQUID, N.O.S. (propan-2-ol)

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 3
ADR Classification code: : F1
Pictograms



Transport hazard class(es) (RID) : 3
Pictograms



Transport hazard class(es) (ADN) : 3
Pictograms



Transport hazard class(es) (IMDG) : 3
Pictograms



Transport hazard class(es) (IATA) : 3

CAM SUYU ANTIFRIZI (-18C)

Pictograms



14.4 - Packing group

<u>Packing group</u>	:	III
<u>Packing group (RID)</u>	:	III
<u>Packing group (ADN)</u>	:	III
<u>Packing group (IMDG)</u>	:	III
<u>Packing group (IATA)</u>	:	III

14.5 - Environmental hazards

<u>Environmental hazards</u>	:	No
<u>Marine pollutant</u>	:	No

14.6 - Special precautions for user

ADR

<u>ADR Classification code:</u>	:	F1
<u>ADR Special provisions</u>	:	274+601
<u>ADR Limited quantity (LQ)</u>	:	5L
<u>ADR Excepted quantities</u>	:	E1
<u>ADR Packing instructions</u>	:	P001 IBC03 LP01 R001
<u>ADR Special packing provisions</u>	:	-
<u>ADR Mixed packing provisions</u>	:	MP19
<u>Instructions for portable tanks and bulk containers</u>	:	T4
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1 TP29
<u>ADR tank code</u>	:	LGBF
<u>ADR tanks special provisions</u>	:	-
<u>Vehicle for tank carriage</u>	:	FL
<u>ADR Transport category</u>	:	3
<u>ADR Tunnel restriction code</u>	:	D/E
<u>ADR Special provisions loading, unloading and handling</u>	:	-
<u>Special provisions - Packages</u>	:	V12
<u>Special provisions - Bulk</u>	:	-
<u>Special provisions - Operation</u>	:	S2
<u>ADR Hazard identification number (Kemler No.)</u>	:	30

RID

<u>Special provisions</u>	:	-
<u>Limited quantity (LQ)</u>	:	-
<u>Excepted quantities</u>	:	-

ADN

<u>Special provisions</u>	:	-
<u>Limited quantity (LQ)</u>	:	-
<u>Excepted quantities</u>	:	-

CAM SUYU ANTIFRIZI (-18C)

IMDG

Special provisions	:	223 274 955
Limited quantity (LQ)	:	5 L
Excepted quantities	:	E1
Packing instructions	:	LP01 P001
Special packing provisions	:	-
IBC instruction(s)	:	IBC03
IBC provisions	:	-
Instructions for portable tanks and bulk containers	:	T4
Special provisions for portable tanks and bulk containers	:	TP1 TP29
EmS codes	:	F-E, S-E
Stowage and handling	:	Category A
Segregation	:	-
Properties and observations	:	

IATA

PCA - Excepted quantities	:	E1
PCA - Limited Quantity - Packing Instructions	:	Y344
PCA - Limited Quantity - Maximum Net Quantity per Package	:	10L
PCA - Packing Instructions	:	355
PCA - Maximum Net Quantity per Package	:	60L
CAO - Packing Instructions	:	366
CAO - Maximum Net Quantity per Package	:	220L
Special Provisions	:	A3
ERG Code	:	3L

14.7 - Maritime transport in bulk according to IMO instruments

- Not applicable.

SECTION 15: Regulatory information

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

Substances REACH candidates	None
Substances Annex XIV	None
Substances Annex XVII	Methanol (Index No.: 603-001-00-X - EC No.: 200-659-6 - CAS No.: 67-56-1)
VOC content	No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - A chemical safety assessment has been conducted for this mixture.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
9	10/02/2025		Updated according to current regulations.
8	23/12/2024		Updated according to current regulations.

CAM SUYU ANTIFRIZI (-18C)

Version	Issue date	Author	Description of the amendments
1	16/10/2019		It was prepared for the first time.

Certificate holder Ece Yigit - Chemical Assessment Specialist (Certificate No: KDU01.30.08 18.02.2028 - Certificate valid for 5 years)

Abbreviations and acronyms

- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate.
- CAS No.: Chemical Abstracts Service number.
- DNEL: Derived no-effect level.
- EC No: European Community number
- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Dangerous Goods.
- LC50: Lethal Concentration to 50 % of a test animals.
- LD50: Lethal Dose to 50% of a test animals.
- OEL: Occupational exposure limit.
- PBT: Persistent, Bioaccumulative and Toxic.
- PNEC: Predicted no-effect concentration.
- RID: International Carriage of Dangerous Goods by Rail.
- STEL: Short-term exposure limit
- TWA: Time weighted average
- vPvB: very Persistent and very Bioaccumulative.

Texts of the regulatory sentences

Acute Tox. 3 Dermal	Acute toxicity (dermal) - Category 3
Acute Tox. 3 Inhalation	Acute toxicity (inhalative) - Category 3
Acute Tox. 3 Oral	Acute toxicity (oral) - Category 3
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
Flam. Liq. 3	Flammable liquid and vapour. - Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs .
STOT SE 1	STOT-single exposure - Category 1

The information provided in this Safety Data Sheet (SDS) is current on the date the SDS was prepared or revised. Implementation of measures that are provided on SDS is under downstream user companies' responsibility. Downstream users may change the measures in the SDS according to the conditions in their own business.

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