



Part I
SAFETY DATA SHEET
EXTENDED LIFE COOLANT

Dated December 13, 2014 and numbered 29204, "Ministry of Environment and Urbanization Regarding Hazardous Substances and Mixtures
It has been arranged in accordance with the provisions of the "Regulation on Safety Data Sheets".

PART 1: Identity of the substance / mixture and company / distributor

1.1. Substance / Mixture identity

Name of the product EXTENDED LIFE COOLANT
Item number 13500

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

Antifreeze fluid.

Uses not recommended This product can be used without the recommendation of the supplier in advance.

It should not be used outside of applications. This product is not used as a solvent or cleaning agent to set fire or to make it brighter and to clean the skin. This product has been designed for automotive applications only, and no provision has been made for aerospace application requirements.

1.3. Information of the safety data sheet supplier

Supplier PETROL OFİSİ A.Ş.
Ünalın Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar / İstanbul Tel: +90 850 339 1919
Fax: +90 216 275 3854
miningiyag@petrolofisi.com.tr
Contact person Customer Service: mineiyag@petrolofisi.com.tr

1.4. Emergency phone number

Emergency phone number Mineral Oil Customer Service: 0850 339 1919 (office hours)
National emergency phone National Poison Information Center (UZEM): 114 Emergency Health Services: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification TC 28848

Physical damages Not classified as harmful
Health hazards Acute Tox. 4- H302 Rep. Fog. Full. 2- H361d BHOT Repeat. Mrz. 2- H373 Not classified
Environmental damages as hazardous

2.2. Label elements

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Hazard sign



Warning word

Attention

Hazard Statements

H302 Harmful if swallowed.
H361d Suspected of damaging 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 before all precautionary statements have been read and understood. P260 Do not breathe vapor / 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: If you feel unwell, call 114 THE NATIONAL POISON ADVICE CENTER or a doctor / physician.

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.

Contents

Monoethylene Glycol, Ethylene glycol, Sodium 2-ethylhexanoate

2.3. Other damages

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Monoethylene Glycol	60-80%
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CAS number: 107-21-1

Classification

Acute Tox. 4- H302

Ethylene glycol	10-20%
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CAS number: 107-21-1

Classification

Acute Tox. 4- H302

BHOT Again. Mrz. 2- H373

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Sodium 2-ethylhexanoate	1-5%
CAS number: 19766-89-3	EC number: 243-283-8
Classification Repr. Fog. Full. 2- H361d	

The full text of the hazard statements is given in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures General

information	If discomfort continues, seek medical attention.
Breathing	Move affected person to fresh air immediately. Seek medical help. Bring the exposed person to fresh air and keep them warm and at rest in a position where they can breathe comfortably. When breathing difficulties occur, oxygen can be given to the casualty by appropriately trained personnel.
Swallowing	Do not try to induce vomiting. Never give anything by mouth to an unconscious person. Do not try to induce vomiting. Remove affected person from source of contamination. Drink plenty of water. Seek medical help immediately. Bring the exposed person to fresh air and keep them warm and at rest in a position where they can breathe comfortably.
Skin contact	Take off contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists after washing, seek medical attention.
Eye contact	Remove contact lenses, and open the eyelids wide. Continue washing for at least 15 minutes. Continue washing for at least 15 minutes. If symptoms occur after washing, seek medical attention immediately.
First aid workers preservation	First aid personnel should wear appropriate protective equipment during rescue.

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

information	Treat symptomatically. See Section 11 for additional information on health hazards.
Breathing	There are no specific symptoms known.
Swallowing	Ingestion of large quantities may cause unconsciousness. Do not induce vomiting because of the risk of obstructing the airways.
Skin contact	There are no specific symptoms known.
Eye contact	Prolonged or severe eye irritation is not expected. Thermal burns may occur when this substance is heated and if it comes into contact with the eyes.

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

Information to be given to the doctor	The effect of decomposition products that may be released during fire may be delayed. The exposed person may need to be under medical observation for 48 hours. Treat symptomatically.
Special treatments	Treat symptomatically.

SECTION 5: Firefighting measures

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5.1. Fire extinguishers

Suitable extinguishing agents Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Using water jet

Unsuitable extinguisher substances may be inconvenient.

5.2. Special hazards arising from the substance or mixture

Special damages As a result of thermal decomposition, smoke of unknown composition, carbon oxides and low molecular weight organic compounds are formed. Vapors are heavier than air and can travel along the floor and accumulate under containers (containers). Solvent vapors can form explosive mixtures with air.

Harmful combustion products Carbon oxides. Acrite (dangerous) fumes or vapors.

5.3. Advice for firefighters

During fire fighting preservative to be taken measures In case of insufficient ventilation, wear necessary respiratory equipment. Proper training or any action involving personal danger should not be made. Enough
Do not enter storage areas and confined spaces without ventilation. Respond to the fire remotely against explosion risk. Fight fire from a safe distance and protected area. Handle upwind to avoid inhalation of gases, vapors and fumes.

For firefighters Wear full protective clothing and self-contained breathing apparatus.

special protective equipment

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as shown in Section 8 of this Safety Data Sheet. Avoid inhalation of spray mist and contact with skin and eyes.

Emergency personnel for those who are not Necessary precautions should be taken so that personnel who do not have proper training do not interfere.

For emergency responders Wear protective clothing as shown in section 8 of this safety data sheet. Proper ventilation should be provided.

6.2. Environmental measures

Environmental measures Contain spillage with sand, earth or other suitable non-flammable material.

6.3. Methods and materials for containment and cleaning

Spill removal methods Collect waste and place it in suitable waste disposal containers and seal tightly. Waste and
Label containers containing contaminated materials and remove from the area as soon as possible. If it is involved in the fire, cut off the flow in the pipeline if it does not pose any danger.

6.4. Reference to other sections

Reference to other sections For personal protection see section 8. For waste disposal, see Section 13. See Section 1 for emergency contact information. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with eyes and skin. Do not handle broken packages without protective equipment.

Advice on general occupational hygiene No food, drink or smoking should be allowed in areas where the product is handled. Good personal hygiene procedures should be followed. Wash hands after use and before eating, smoking and going to the bathroom.

7.2. Conditions for safe storage, including any incompatibilities

Storage measures Store in tightly closed original packaging in a dry, cool and well-ventilated place. Keep only in original container.

Storage class Chemical storage.

7.3. Specific end use (s)

Specific end use (s) The identified uses for this product are detailed in Section 1.2. It should be used as specified in the

Directions for use product data sheet.

SECTION 8: Exposure Controls / personal protection

8.1. Control parameters

Content notes Ethylene glycol: STEL: 104 g / m³ (Vapor); 40 ppm (Vapor) / TWA: 52 mg / m³ (Vapor); 10 mg / m³ (Particulate); 20 ppm (Vapor)

DNEL Ethylene glycol:
General population - Dermal; Long term systemic effects: 53 mg / kg / day
General population - Inhalation; Short term systemic effects: 7 mg / m³
Workers - Dermal; Long term systemic effects: 106 mg / kg / day
Workers - Inhalation; Short term systemic effects: 35 mg / m³
Sodium 2-ethylhexanoate:

Staff - Breathing; Long term systemic effects: 14 mg / m³
Workers - Dermal; Long term systemic effects: 2 mg / kg / day
Consumer - Inhalation; Long term systemic effects: 3,5 mg / m³
Consumer - Dermal; Long term systemic effects: 1 mg / kg / day
Consumer - Oral; Long term systemic effects: 1 mg / kg / day

8.2. Exposure controls Protective

equipment



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Proper engineering controls	Consider the potential risks of this substance (see Section 2), appropriate exposure limits, work activities and other substances in the workplace when determining engineering controls and selecting personal protective equipment. If engineering controls and work practices are not sufficient to prevent exposure to harmful levels of this substance, the use of personal protective equipment specified in this section is recommended. The user must read and understand all instructions and restrictions supplied with the equipment, although protection is usually provided for a limited time or under certain conditions. This product should not be used under conditions of poor ventilation. Static electricity and sparks must be prevented.
Personal protection	Keep away from foodstuffs, food and drink. Instantly remove contaminated and impregnated clothing. Wash hands during breaks and after work. Store protective equipment separately. Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. Regular maintenance of protective clothing and aprons should be made.
Eye / Face protection	Wear goggles against chemical splashes. Follow good industrial hygiene
Hand protection	rules.
Other skin and body protection	Personal protective equipment for the body should be selected depending on the work being done and this risk, and approved by a specialist before using this product.
Health measures	Good personal hygiene procedures should be followed. Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. When using do not eat, drink or smoke. Clean equipment and work area daily. The level of protection and types of controls required will differ depending on potential exposure conditions. Select controls based on a risk assessment of local conditions. Appropriate measures include: Use of isolated systems as far as possible. Adequate ventilation to control airborne concentrations below exposure guidelines / limits. Local exhaust ventilation is recommended. Eye bath and body shower for emergency use.
Respiratory system preservation	If there is potential to exceed exposure limits, wear appropriate respiratory protection. In case of insufficient ventilation, suitable respiratory protection should be used.
Thermal damages	If there is danger of contact with hot product, all protective equipment suitable for use with high temperatures should be used.
Environmental exposure controls	Containers should be kept tightly sealed when not in use. Store in a confined area with a bund to prevent leakage into drains and / or water sources.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties Appearance

	Liquid.
Color	Pink.
Smell	Matter specific.
Odor threshold	There is no specific test data available.
pH	pH (dilute solution): 8.4 33

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Melting point / freezing point	There is no specific test data available.
Initial boiling point and boiling range	There is no specific test data available.
Flash point	There is no specific test data available. There is
Evaporation rate	no specific test data available. There is no
Evaporation factor	specific test data available. There is no specific
Flammability (solid, gas)	test data available. There is no specific test data
Upper / Lower flammability or explosive limits	available.
Other flammability	There is no specific test data available. There is
Vapor pressure	no specific test data available. There is no
Vapor density	specific test data available.
Relative density	1.11 g / ml @ 20 ° C
Volumetric density	There is no specific test data available. There is
Resolution (s)	no specific test data available. There is no
Partition coefficient	specific test data available. There is no specific
Self ignition temperature	test data available.
Decomposition temperature	There is no specific test data available.
Viscosity	Insufficient data.
Explosive properties	There is no specific test data
Explosive under the influence of flame	available. No data available.
Oxidizing properties	No data available.
Descriptions	No information.
9.2. Other informations	
Other informations	Required information is not available.
Refractive index	There is no specific test data available. There is
Particle size	no specific test data available. There is no
Molecular weight	specific test data available. There is no specific
Volatility	test data available. There is no specific test data
Saturation concentration	available.

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Critical temperature There is no specific test data available. There is

Volatile organic compound no specific test data available.

SECTION 10: Stability and reactivity

10.1. Reaction

Reaction Required information is not available.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous reaction will not occur under normal conditions of storage and use.

10.4. Conditions to avoid **Conditions to avoid** Avoid contact with the following materials: Acids. Oxidizing agents.

10.5. Incompatible materials **Materials to avoid** Chlorates. Nitrates. Strong acids. Strong oxidizing agents. Peroxides.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Toxic gases / vapors / fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxic effects

Toxic effects The information given is based on product data and some information on ingredients and the toxicology of similar products.

Other health effects There is no suitable information.

Acute toxicity - oral

Notes (oral LD₅₀) Ethylene glycol: LD₅₀ 1600 mg / kg, Oral, Cat

ATE oral (mg / kg) 579.71

Acute toxicity - dermal

Notes (dermal LD₅₀) Ethylene glycol: LD₅₀> 3500 mg / kg, Dermal, Mouse

Acute toxicity - inhalation

Remarks (inhalation LC₅₀) Ethylene glycol: LC₅₀, Rat,> 2.5 mg / l, 6 hours

Skin corrosion / irritation

Skin corrosion / irritation It is not classified as a primary skin irritant. There is no suitable information.

Animal data

Human skin model test There is no suitable information.

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Excessive pH	There is no suitable information.
Serious eye damage / irritation	
Serious eye damage / irritation	Based on available data, the classification criteria are not met.
Respiratory sensitization	
Respiratory tract sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	
Skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data, the classification criteria are not met. Based on
Genotoxicity - in vivo	available data, the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	
Summary	It is suspected that this product could harm the unborn child.
Specific target organ toxicity - single exposure STOT - single exposure	
single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure STOT - repeated exposure	
repeated exposure	May cause damage to organs through repeated exposure. (Kidney)
Aspiration hazard	
Aspiration hazard	Based on available data, the classification criteria are not met.
Toxicokinetics	Required information is not available.
General information	The information given is based on the data of the components and similar products. Dizziness.
Medical symptoms	Severe abdominal pain. Nausea, vomiting.
Medical opinions	There is not enough information.

SECTION 12: Ecological information

Ecotoxicity	The product is not expected to be dangerous for the environment.
12.1. Toxicity	
Toxicity	There is not enough data.
Acute aquatic toxicity	
Acute toxicity - fish	Ethylene glycol: LC ₅₀ , 96 hours: 78860 mg / l, Pimephales promelas (Golyan Fish)

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Acute toxicity - aquatic invertebrates Ethylene glycol:
EC₅₀, 48 hours:> 100 mg / l, daphnia

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable. There is no
Phototransformation specific test data available. There is no specific test data
Stability (hydrolysis) available. There is no specific test data available. There is no
Biodegradation specific test data available. There is no specific test data
Biological oxygen demand available.
Chemical oxygen demand

12.3. Bioaccumulative potential

Bioaccumulative potential There is no specific test data available. There is
Partition coefficient no specific test data available.

12.4. Mobility in soil

Mobility There is no suitable information.
Adsorption / desorption coefficient There is no specific test data available.
Henry's law constant There is no specific test data available. There is
Surface tension no specific test data available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB results of the assessment This product is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects Other

adverse effects Required information is not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods General

information Use the material for its intended purpose and recycle if possible. If this product needs to be disposed of, it must be disposed of as defined by international, national or local laws and regulations. Waste generation should be minimized or avoided wherever possible. Wastes, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated appropriate containers and labeled according to their contents.

Waste treatment methods Dispose of waste in a licensed waste disposal facility in accordance with the requirements of the local Waste Disposal Authorities.

Waste class Waste code classification should be carried out according to the European Waste Catalog (EWC).

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SECTION 14: Transport information

General Wear protective clothing as shown in Section 8 of this Safety Data Sheet. Not applicable.

Road shipment notes

Railway shipment notes Not applicable.

Sea shipment notes Air Not applicable.

shipment notes Not applicable.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class (es)

There is no required transport warning sign.

14.4. Packing group

Not applicable.

14.5. Environmental damages

Environmentally harmful / marine pollutant

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

MARPOL 73/78 Annex II and IBC Not applicable.

pouring by code

transportation

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation Republic of Turkey Ministry of Labor and Social Security, Regulation on Health and Safety Measures in Working with Chemicals, dated 12 August 2013 and numbered 28733
Republic of Turkey Ministry of Labor and Social Security, Regulation on the Use of Personal Protective Equipment at Workplaces, dated 2 July 2013 and numbered 28695.
Republic of Turkey Ministry of Environment and Urbanization, Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated 11 December 2013 and numbered 28848

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Guide Workplace Exposure Limits EH40. CHIP for everyone HSG228.
Approved Classification and Labeling Guide (Sixth edition) L131.

Health and environmental lists The ingredients with a risk of harm are listed.

SECTION 16: Other information

In the safety data sheet used abbreviations and acronyms

EU: European Union
PPE: Personal protective equipment STEL:
Short term exposure limit
TC: Republic of Turkey
TWA: Workplace exposure limits UZEM: National Poison Information Center
ADR: European Agreement on the International Carriage of Dangerous Goods by Road. DNEL: Derived no-effect level.
GHS: Global Harmonized System.
LC50: The concentration of the substance causing 50% (half) death in the test animal group.
LD50: Dose of substance (Median Lethal Dose) that caused 50% (half) death in the test animal group.

PBT: Persistent, Bioaccumulative and Toxic substance.

REACH: EU Regulation (EC) No 1907/2006 on Registration, Evaluation, Authorization and Restriction of Chemicals.

vPvB: Very Persistent, Very Bioaccumulative.

Abbreviations and acronyms

Acute Tox. = Acute toxicity
BHOT Again. Mrz. = Specific Target Organ Toxicity - Repeated exposure Repr. Fog. Full. = Reproductive System Toxicity

General information

This document contains important information for the safe storage, transport and use of this product. The information in this document should be brought to the attention of the person responsible for security issues in your organization. Uses and Restrictions: This product should not be used outside of the applications recommended in Section 1 without the prior recommendation of the supplier. This product is not used as a solvent or cleaning agent to set fire or to make it brighter and to clean the skin. Material Safety Data Sheet Distribution: The information in this document should be made available to all persons who can handle this product. Disclaimer: This information is based on our current knowledge and the product is described for the purpose of health, safety and environmental requirements only. For this reason, it should not be interpreted as guaranteeing any specific feature of the product.

Main literature references and sources of information This SDS is arranged within the information received from our raw material suppliers.

Organized by Sevda ŞAHAN Certified Safety Data Sheet Maker (Certificate No: GBF01.23.08; Date: 03.11.2018-03.11.2021)

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SDS No	20510
All of the hazard statements	H302 Harmful if swallowed. 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 or inhaled.

This information relates only to a specific specific substance and should not be used in a composition or any process where the same substance is used in combination with other substances. This information is accurate and reliable as of the date specified, within the firm's high level of knowledge and opinion. However, no warranty or representation of any kind is made for its accuracy, reliability and completeness. It is the user's own responsibility to be satisfied that this information is suitable for his own use.