SAFETY DATA SHEET
HEXON ANTIFREEZE -42

This Safety Data Sheet is "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" (Official Journal dated 13.12.2014 and numbered 29204) and "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" Prepared in accordance with (Official Journal No. 28848 and 11.12.2013).

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name HEXON ANTIFREEZE -42

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

Identified Uses

1.3 Details of the supplier of the safety data sheet

Supplier

Name	ÖZERŞAH ENERJİ VE PETROL ÜRÜNLERİ TİCARET VE SANAYİ LİMİTED ŞİRKETİ
Address	Gebkim Kimyacılar Osb. Atatürk Bulv. No:4/a Dilovası / KOCAELİ
Telephone	0262 502 01 99
Fax	0262 502 01 97
Web	www.hexon.com.tr
E-mail	ozersahenerji@gmail.com
Related person	Fetullah ARVAS

1.4. Emergency telephone number

ÖZERŞAH ENERJİ VE PET. ÜRÜN. TİC. VE SAN. LTD. ŞTİ.	**:** 0262 502 01 99
National Poison Information Center (UZEM)	**:** 114
Emergency Health Services	**:** 112

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical Hazards: Not classified as hazardous

Hazard to Health: Not classified as hazardous when used appropriately.

Environmental Hazards: Not likely to be harmful to aquatic organisms.

2.2 Label elements

Hazard pictograms

Warning Statement

Hazard Statement

2.3 Other hazards

There is no other foreseen danger.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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3.1 Mixtures

SUBSTANCE NAME	CAS NO	EC No	Concentration	Classification
Mono Ethylene Glycol	107-21-1	203-473-3	15-75%	Unclassified
Tris(2-hydroxyethyl)amine	102-71-6	203-049-8	3-8	Unclassified
WATER			25-55	

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

If the mixture is inhaled, the person should be taken to fresh air, and if not breathing, artificial respiration should be applied. If there is difficulty in breathing, oxygen should be given. A doctor should be called immediately and action should be taken.

Ingestion

If swallowed, DO NOT ATTEMPT TO VOMIT THE PERSON. If conscious, give plenty of water orally. Never give anything if consciousness is closed. Get medical help immediately

Skin contact

In case of contact with the skin, the contaminated clothing and shoes should be removed and washed with plenty of water for at least 15 minutes. Clothes should be washed before reuse.

Eye contact

If the mixture comes into contact with the eyes, they should be washed immediately with plenty of water for at least 15 minutes.

5. FIRE FIGHTING MEASURES

5.1 Fire Extinguishers

Suitable Extinguishers: Water fog, CO2, Dry Chemical Powder, Foam

Unsuitable Fire Extinguishers: Do not fight the fire with water.

5.2 Special Hazards Resulting from the Product: As a result of combustion, it may create a mixture of carbon monoxide, sulfur oxides, organic and inorganic compounds, solid particles and gases.

5.3 Protective Equipment for Fire Fighting Teams: Positive pressure, full-face mask air-conditioning respirator and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Protective Measures: Remove ignition sources, avoid skin and eye contact, and use impermeable gloves and boots as personal protection.

6.2 Environmental Precautions: Precautions should be taken to prevent it from mixing with canals, surface and ground water, and soil. If this is not possible, notify local governments. Spilled product must be collected by expert personnel.

6.3 Collection and Cleaning Processes: Soil, sand and similar materials prevent the oil from mixing with the environment by creating a suitable barrier. Recover the oil with suitable absorbent materials and clean it from the surface. Dispose of materials in accordance with local laws..

7. HANDLING AND STORAGE

7.1 Handling: Avoid breathing the vapors that will occur during use, and good ventilation should be provided in the working environment. During use, eating, drinking and smoking should not be done. Spilled materials must be controlled using appropriate methods and disposed of in accordance with local laws.

Protective measures for safe handling of the substance/preparation

Technical measures for environmental protection

7.2 Conditions for Safe Storage, Including Incompatibilities: There must be strong retaining walls and it must be located in dry storage areas with good ventilation. It should not be exposed to direct sunlight and heat sources. It should be kept away from strong oxidizing materials. Precautions must be taken when filling and discharging into ignition sources. Pump etc. to prevent the accumulation of static electricity. Equipment such as should be grounded. It should be stored between 0 and 45 C temperatures.

7.3 Specific End Uses: There is a risk of ignition when the product comes into contact with hot surfaces. Cutting, drilling and welding operations should not be performed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: The American Governmental Industrial Hygiene (ACGIH) value is given in this document for information only**.**

Compound Name	Time	Limit	Unit	Legislation
Mineral	TWA	5	mg/m3	ACGIH
Oil mist stel	STEL	10	mg/m3	ACGIH

8.2 Exposure Controls: In environments where the substance becomes a mist, adequate ventilation is required as the potential for airborne concentrations to increase is higher.

8.2.1. Engineering Measures

8.2.2. Personal Protective Equipment

Respiratory Protection: No respiratory protection is required under normal use conditions and with adequate ventilation. If airborne contaminant concentrations are not maintained at a level sufficient to protect the health of the employee, use protective breathing apparatus in accordance with current regulations.

Eye/Face Protection: In case of contact, safety glasses with a safety shield should be used, and in case of splashing, a face mask should be used**.**

Skin Protection: Skin contact should be minimized. Under normal conditions, no special precautions are required to protect the skin.

Protection of Hands: Chemical protection can be provided by using PVC, neoprene or nitrile gloves. Gloves should be worn when hands are clean. After using gloves, hands should be washed and dried thoroughly.

Thermal Damages: -

8.2.3 Environmental Exposure Control Dispersion into the environment must be prevented and disposal must be carried out in accordance with the regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Clear

Smell: -

Colour: -

9.2 Other Information

Relative Density: 1.075 (15 °C g/ml)

Boiling point: -

Freezing Point: -42 °C

pH: 8.78

Viscosity: -

Solubility (in Water/Alcohol/Oil): -

Steam Pressure: -

Partition Coefficient (n-octanol/water): -

pH value at 25 C: -

10. STABILITY AND REACTIVITY

10.1 Reaction

10.2 Chemical stability

10.3 Possibility of hazardous reactions: Decomposition and formation of hazardous products are not expected during storage under normal conditions.

10.4 Conditions to avoid: Direct sunlight and extreme heat levels

10.5 Substances to avoid: Avoid contact with strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxic effects

Eyes: Accidental contact with eyes causes temporary blindness.

Skin: Prolonged or repeated contact causes skin irritation.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Does not harm aquatic creatures. Spills form a film on the water surface, preventing oxygen transfer.

12.2 Persistence and degradability: It has the ability to accumulate in soil.

12.3 Bioaccumulation potential: -

12.4 Mobility in soil: -

12.5 Results of PBT and vPvB assessment:

12.6 Other adverse effects: Spilled product causes contamination of groundwater.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: It must be disposed of in accordance with the legislation in force.

Do not throw it into the environment or sewer. Disposal of packaging: Hand over to a competent collector or subcontractor in accordance with the legislation in force. Cutting, drilling, grinding, etc. on packages. Do not take any action.

14. TRANSPORT INFORMATION

14.1 UN Number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

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/73/78 and the IBC code

Not applicable.

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).

Guide

Workplace Exposure Limits EH40.

CHIP for everyone HSG228.

Safety Data Sheet for substances and preparations.

Approved Classification and Labelling Guide (Sixth edition) L131

16. OTHER INFORMATION

16.1 Additional info

The information on health, safety and environment in the Safety Data Sheet has been given by examining the reliable sources available at the time the form was prepared. Whilst every care is taken with regard to the accuracy of the information, there is no guarantee of perfection or correctness of the information contained in this document. The health, safety, and environmental recommendations contained in this document may not be adequate for all individuals and/or situations. It is the responsibility of the users to evaluate the material, to use it safely and to comply with the laws and regulations regarding the issues related to this use. The expressions used in this document shall not be construed as any permission, recommendation or license for the practice and work performed without a valid license. ÖZERŞAH ENERJİ VE PETROL ÜRÜNLERİ TİCARET VE SANAYİ LİMİTED ŞİRKETİ will not be held responsible for any damage and/or injury that may arise from abnormal use of the material, failure to follow the recommendations or the hazards inherent in the material.

abbreviations

ADR: European Agreement on the International Carriage of Dangerous Goods by Road.

ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.

ADNR: Regulation on the Carriage of Dangerous Goods in Rivers

RID: European Agreement on the International Carriage of Dangerous Goods by Rail.

DGR: International Air Transport Association Dangerous Goods Legislation

ICAO-TI: Technical Specification for the Safe Carriage of Dangerous Goods by Air.

UZDM: National Poison Advisory Center ISGGM: General Directorate of Occupational Health and Safety

ACGIH: American Government Industrial Hygienists Association

ASTM: American Society for Testing Materials

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Theories Service.

PBT: Kalıcı, Bioaccumulative and Toxic substance.

OEL: Occupational Exposure Limit Values

TWA: Time-weighted average measured or calculated for a specified reference period of 8 hours.

STEL: The upper limit value for exposure that should not be exceeded for a period of 15 minutes, unless another time is specified.

MARPOL 73/78: Convention for the Prevention of Marine Pollution from Ships

16.5 Prepared by:

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