MATERIAL SAFETY DATA SHEET

REPUBLIC OF TURKEY This document has been prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Preparations which was published in Official Gazette dated 13 December 2014 and numbered 29204, by the Ministry of Environment and Urbanization.

DIESEL ADDITIVE

Date of Issue: October 2020

Revision No: 00 FORM NO: EF:55

1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION AND COMPANY / DEALER

1.1 Identification of the Substance/Mixture: Diesel Additive

1.2 Use of the Substance/Mixture: It prevenets gelling and freesing in fuel. Ensures easier engine running in cold.Provides better combustion in fuel. Increases engine power and saves money. Clears residues, reduces power loss on motor. Reduces maintenance costs and exhaust fumes and contamination.

The uses advised against, if any: Do not use in cleaning hands, face, body and food.

1.3 Company Identification

Manufacturer	AUTO CHER OTO BAKIM LİMİTED ŞİRKETİ
Address	İçerenköy, Çetinkaya Sk. No:17, 34752 Ataşehir / İstanbul
Phone	+90 216 575 00 84
Cep / WhatsApp	+90 533 818 42 32 (WhatsApp)
E Mail	info@autocher.com.tr

1.4 Emergency Telephone Numbers. No.: 114 UZEM

2. HAZARDS IDENTIFICATION

2.1 Classification of substances and mixtures

Physical Hazards

Flam. Liq. 2 H225

Health Hazards

Asp. Tox. 1 H304

Skin Irrit. 2 H315

Eye Irrit. 2 H319

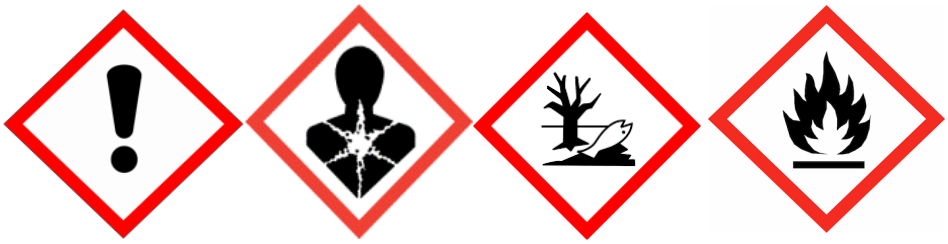
STOT SE 3 H336

Environmental Hazards

Aquatic Chronic 2 H411

2.2.Label Elements:

Hazard Pictograms;



Signal Word: Danger

Hazard Statements (H):

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (P):

Precaution;

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapours/ spray.

P264 Wash water thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Handling;

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P312 Call a POISON CENTER/doctor/if you feel unwell.

P331 Do NOT induce vomiting.

P362 Take off contaminated clothing.

P370 + P378 In case of fire: Use dry chemical powder to extinguish.

P391 Collect spillage.

Storage;

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

Disposal;

P501 Dispose of contents/container to.

2.3. Other Harms

PBT and vPvB assessment: Does not contain PBT and vPvB substances.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name	EC No	Cas No	Concentration %	Classification
Naphtha (petroleum), hydrotreated heavy	265-150-3	64742-48-9	65	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411
Propan-2-ol	200-661-7	67-63-0	35	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

For full text of the H statements see Chapter 16.

4. FIRST AID MEASURES

General Information: Get medical assistance, if any discomfort persists.

4.1 Inhalation: Take the patient from the danger zone. Make sure the person get fresh air. In case of loss of consciousness, make the person get side-lying position and call a physician.

4.2 Skin Contact: Take off all contaminated clothing. Rinse thoroughly with plenty of water. Can cause irritation, consult a physician.

4.3 Eye Contact: Remove contact lenses. Raise your eyelids and flush with plenty of water immediately. Consult a doctor if irritation persists.

4.4 Ingestion: Rinse your mouth thoroughly with water. Do not induce vomiting. Give plenty of water to drink. Consult a doctor immediately. In case of vomiting, the head should be kept below.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: CO_2, Dry Chemical Powder (DCP), Water spray, Alcohol-resistant foam.

Unsuitable Extinguishing Media: No data.

Chemicals with Explosion-Risk: No risk of explosion.

Advice for Firefighters: No data.

Special protective equipment: In case of fire, use respiration support equipment that is independent from weather and chemical surrounding.

Further Information: In the case of burning, the gasses of carbon dioxide, carbon monoxide and sulphur can be emitted.

Fire Type	A	B	C	D	E

Type	Solid	Liquid	Gas	Metals	Electric
Inflammable Material	Wood, Wooden Material, Fabric, Paper	Fuel, Oil, Dye, Thinner	Methane, Propane, LPG	Magnesium, Sodium, Aluminum	Electric
Extinguishing Method	Cooling, Inhibit Burning	Inhibiting, Smothering, Cooling	Inhibiting,	Cooling, Smothering	Cut electricity at first
Extinguishing Media	Water, Extinguisher with ABC powder and foam	Extinguisher with ABC powder, BC powder, Halon gas, CO_2, and foam	Extinguisher with ABC powder, BC powder, Halon gas, and CO_2	Extinguisher with only D powder	Extinguisher with ABC powder, B powder, and Halocarbon gas

In general;

1. Dry powder fire extinguisher, for '' all kinds of fire''.
2. Fire extinguishing foam for ''solid and liquid fires".
3. Aqueous fire extinguisher for ''solid fires''.
4. Halocarbon-based fire extinguisher for "fires of electric and electronic media".

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment See Section 8. Avoid contact with eyes. Pay attention to the danger of slipping.

6.2 Environmental Precautions: Avoid releasing to the environment. Prevent further leakage and spillage if it is safe. Prevent the leakage to the spaces in which accumulation can be dangerous such as sewers, basements, and holes. In case of accidental flow into the sewer, notify the authorities**.**

6.3 Methods and material for containment and cleaning up: Use material with absorbent agents (e.g. universal binding agent, sand, siliceous soil). Keep the wastes in closed containers suitable for this substance. The collected material should be kept in a suitable container, it should be recycled or disposed off in accordance with the national or regional regulation.

6.3.1 Recommendations to Keep Spillage Under Control:

Take protective precautions against the risk of slipping.

6.3.2. Recommendations to Clean Spillage: In case of spillage, take appropriate measures immediately and clean. In case of spillage in liquid form collect the spillage by using dry sand, soil, silica gel or binding substance and put it into waste container carefully. Clean the remnants by diluting. Put the contaminated material into a suitable container and dispose of it in accordance with Article 13.

6.3.4 Other information:

Comply with local regulations. See Article 7 for information on safe handling. See Article 8 for information on safe handling. See Article 13 for information on safe handling. In case of any disorder, apply first-aid measures at Article 4.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

In order to protect health, safety and the environment, work procedures and organizational measures should be taken in workplace and at works with dangerous chemicals in accordance with Article 7 of the Regulations on Health and Safety Measures When Working with Chemicals, published in the Official Gazette dated 12.8.2013 and numbered 28733 and Article 7 of the Regulation on Health and Safety Precautions in Carcinogenic or Mutagenic Activities published in the Official Gazette dated 6.8.2013 and numbered 28730 and care should be taken to ensure planning of work procedures and taking organizational measures in the workplace.
Ensure handling compliant with good practices of industrial hygiene and safe handling procedures.
Comply with industrial hygiene standards in order to prevent ingestion, contact with eyes and skin during handling. Widespread common rules should be obeyed while working with chemicals. Make sure that there is a good ventilation at work place. Considering the occupational exposure limits, check the quantities in the atmosphere of the work place. This product is not a flammable substance but must be kept under control in case of fire. See Article 7 for information on safe handling. See Article 8 for information on Personal Protective Equipment. See Article 13 for information on disposal. Always obey general hygiene rules for chemicals. Keep all flammable sources away. Avoid skin and eye contact. Do not ingest the product. Do not eat, drink, or smoke at handling area. Avoid from any ignition danger. Avoid from exposure to high temperature during the process.

7.1.1 Recommendations for General Handling:
7.1.1.1 Warnings for Safe Handling
Use protective clothing and avoid its contact with the clothing. In order to ensure safe handling of the substance or mixture, take necessary precautions for preventing or controlling the occurrence of a fire. Use personal protective equipment. Make sure that the place is well ventilated. Avoid contact with eyes, skin, and body. Keep away from the sources that may create fire. Keep fire-fighting equipment ready.
7.1.1.2 Warnings on Incompatibilities of the Substances or Mixtures
Take necessary precautions to prevent handling incompatible substances or mixtures. In case of oxidization or hot surface, keep away from the situations that may create flame.
7.1.1.3 Environmental Warnings
Prevent it from contaminating sewers/surface water/ground water. In case of contaminating waters or drains inform the official authorities.
7.1.1.4 Additional warnings:
Take necessary precautions to avoid damaging of the original packaging/ storage media.
7.1.2. Recommendations on General Occupational Hygiene:
Comply with industrial hygiene standards in order to prevent ingestion, contact with eyes and skin during handling. Wash your hands with plenty of water and soap after work. Make sure that there is a good ventilation at work place. Smoking, eating, and drinking should be prohibited in the application area. Contaminated clothing and protective equipment should be taken off before entering in the mess hall.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Handling precautions: Ensure adequate local ventilation in the storage areas. Keep away from food, beverages and animal feed. Keep it at well ventilated, dry and cool spaces which are away from heat, open flame and daylight. Keep the packaging closed. Do not eat, drink, or smoke at storage area. Keep all sources of ignition away. Do not store it with oxidizing agents, acids, alkalis and materials that cause dangerous reactions. Recommended storage temperature is between 0°C and 35°C. Do not exceed the expiration date specified on the packaging.

7.3. Specific End Use(s)
None at the moment.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control Parameters
The mixtures have not TWA and STEL values.
8.1.1.1 Occupational Exposure Limit Values in accordance with the Regulation on Health and Safety Measures When Working with Chemicals (Official Gazette-12.08.2013-28733): No Data
8.1.1.2 Occupational Exposure Limit Values in accordance with the Regulation on Health and Safety Precautions in Carcinogenic or Mutagenic Activities (Official Gazette-06.08.2013-28730): No data
8.1.1.3 Other Occupational Exposure Limit Values: No Data
8.1.1.4 Biological limit values in accordance with the Regulation on Health and Safety Measures When Working with Chemicals (Official Gazette-12.08.2013-28733): No Data
8.1.1.5 Other biological limit values: No Data
8.1.2 At least information on the monitoring procedures currently recommended for the substance which is the most similar to the substance in question: No data
8.1.3 The applicable occupational exposure limit values and/or biological limit values in case of generating air pollutants when the substance or mixture is used as intended: No data
8.1.4 Sufficient information to provide effective management of risk and special control band in case of using control band approach to decide risk management measures for specific uses

Naphtha (petroleum), hydrotreated heavy;

Use Area	Exercise / environmental section	Effects on health	Derived no-effect level (DNEL)	Value	Unit	Description
Workers/employees	Human-inhalation	Long-term systematic effects	DNEL	1286,4	mg/m^3	Neurotoxicity
Workers/employees	Human-dermal	Long-term systematic effects	DNEL			

Consumer	Human-inhalation	Long-term systematic effects	DNEL	1152	mg/m³	Neurotoxicity
Consumer	Human-dermal	Long-term systematic effects	DNEL			
Consumer	Human-oral	Long-term systematic effects	DNEL			

Propan-2-ol;

Use Area	Exercise / environmental section	Effects on health	Derived no-effect level (DNEL)	Value	Unit	Description
Workers/employees	Human-inhalation	Long-term systematic effects	DNEL			
Workers/employees	Human-dermal	Long-term systematic effects	DNEL			
Consumer	Human-inhalation	Long-term systematic effects	DNEL	89	mg/m³	Repeated dose toxicity
Consumer	Human-dermal	Long-term systematic effects	DNEL	319	mg/kg	Repeated dose toxicity
Consumer	Human-oral	Long-term systematic effects	DNEL	26	mg/kg	Repeated dose toxicity

Protection Equipment:





Ventilation: Provide proper aspiration / ventilation at the workplace. A suitable respiratory protection equipment should be used to keep the concentration in the workplace exposure limit (WELs).

Inhalation protection: No special equipment is required in well-ventilated areas. Use artificial respiration equipment in poorly ventilated areas.

Hand protection: Avoid direct contact. Protective gloves should be used for sensitive skin. (Nitrile gloves EN 374)

Eye protection: Wear goggles or protective equipment with protective screen. (EN 166)

Other Protection: Apply general hygiene regulations concerning the use of chemical substances. Wash your hands with water during the breaks and after work is finished. Keep it away from the food, drinks, and meals. Take off contaminated clothing and protective equipment before entering into mess halls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Odor	Characteristic
pH	Not applicable
Melting point / Freezing point	Not applicable
Boiling point / Boiling interval	Not applicable
Flashing Point	11,7- 12 °C
Evaporation rate	Not applicable
Flammability	Not applicable
Upper/lower limits for flammability or explosion	Not applicable
Steam Pressure	Not applicable
Steam density	Not applicable
Relative Density	0,80-0,81 gr/ml
Solubility in water	insoluble in water
Log Pow (log octanol/water partition coefficient)	Not applicable
Flammability temperature	Not applicable
Decay temperature	Not applicable
Fluidity	Not applicable
Explosive / oxidizing property	Risk of explosion at temperatures above 50°C
Viscosity	Not applicable

10. STABILITY AND REACTIVITY

Stability: It is stable under normal temperature values.

Conditions to avoid: No data available.

Materials to avoid: Protect from sunlight. Don't expose to temperatures exceeding 50°C.

Possibility of Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxic effects

Non-toxic.

11.1.1 Acute Toxicity of the Substance;

Naphtha (petroleum), hydrotreated heavy;

Acute toxicity	**Oral**	LD50 5000 mg/kg bw (rat)
	Inhalation	-
	Dermal	LD50 2000 mg/kg bw (rabbit)

Propan-2-ol;

Acute toxicity	**Oral**	LD50 5840 mg/kg bw (rat)
	Inhalation	LC50 (6 h) 10000 ppm (rat)
	Dermal	LD50 16,4 mL/kg bw (rabbit)

11.1.2 Skin Corrosion / Irritation

Causes severe irritation.

11.1.3 Severe Eye Damage / Irritation

Causes severe irritation.

11.1.4 Respiratory or Skin Sensitisation

Causes severe irritation.

11.1.5 Sex Cell Mutagenicity

No information available on the content of mutagenic adverse agent.

11.1.6 Carcinogenicity

As stated in 29 CFR 1910.1200 (Risk Statement), this product has no information on the content of carcinogenic substances, as listed in NTP17, IARC18 or OSHA19.

11.1.7 Reproductive Toxicity

No information available on the content reproductive toxicity.

11.1.8 Specific Target Organ Toxicity -Single Exposure (STOT-Single):

STOT SE 3 336

11.1.9 Specific Target Organ Toxicity-Repeated Exposure (STOT-Repeated)

No data available on Specific Target Organ Toxicity- Repeated Exposure.

11.2 Aspiration Hazards

Asp. Tox. 1 H304

11.3 Information Hazards Classification, Differentiation or Effects

Flam. Liq. 2 H225

Asp. Tox. 1 H304

Skin Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 336

Aquatic Chronic 2 H411

11.4 Information on Hazards of the Mixture as it is released to the market

Flam. Liq. 2 H225

Asp. Tox. 1 H304

Skin Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 336

Aquatic Chronic 2 H411

11.5 Information on Test Data

No information available

11.6 Further Supplementary Information on Classification Criteria

No information available

11.7 Information on Possible Exposures

Inhalation exposure: May cause irritation of respiratory system if inhaled.

Ingestion: Causes severe burns and pain in the throat, stomachache, nausea, bloody vomiting, shortness of breath, shock and loss of consciousness, as well as mucosal irritation in the chest and abdomen. Creates the risk of gastric perforation. Causes severe irritation and harm at gullet, stomach, and intestines Causes rashes and irritation when splashes and in contact with the skin. Causes eye redness and tears when splashes and in contact with the eyes.

Target Organs: Eyes, skin.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The product is not expected to be hazardous for the environment.

12.1.1 Acute Toxicity:

Naphtha (petroleum), hydrotreated heavy;

Short–term toxicity to fish	LL50 (4 days) 8,2-10 mg/L
Long-term toxicity to fish	EL50 (21 days) 10 mg/L NOELR (21 days) 2,6 mg/L
Short term toxicity to aquatic invertebrates	EL50 (48 h) 4,5 mg/L NOELR (48 h) 500 µg/L
Long-term toxicity to aquatic invertebrates	NOELR (21 days) 2,6-16 mg/L EL40 (21 days) 10-40 mg/L
Toxicity to aquatic algae and cyanobacteria	EL50 (4 days) 3,7 mg/L EL50 (72 h) 3,1 mg/L NOELR (72 h) 500 µg/L
Toxicity to microorganisms	EC50 (40 h) 15,41 mg/L

Propan-2-ol;

Short–term toxicity to fish	LC50 (4 days) 9,64-10 g/L
Short–term toxicity to aquatic invertebrates	EC50 (24 h) 10 g/L LC50 (24 h) 10 g/L EC0 (24 h) 5 g/L LC0 (24 h) 5 g/L

12.2 Persistence and Degradability:

Essentially it is biodegradable in water.

12.3. Bioaccumulative Potential: Bioaccumulation is not expected.

12.4. Mobility in Soil; Mobility in soil is not expected.

12.5 Results of PBT & vPvB Assessment: Not applicable.

12.6. Other adverse effects:

Environmental hazards: The product should not be released to the sewer systems or water streams.

Biological Accumulation: The surfactants in this mixture conform to the biodegradability criteria set out in European Union law no. 648/2004.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of in accordance with local regulations. The waste codes are not specific to the product but to the use in accordance with the European waste catalog. The waste codes should be determined by the user, preferably in consultation with the waste disposal facilities.

Product remnants: Recyclable container. Do not perforate or burn, even after use. Do not dispose of empty packaging with normal household waste. Containers must be recycled or reused. The packaging with no product should be considered as chemical waste.

Contaminated package: Dispose of it as a used product. Empty containers should be taken to an certified waste disposal facility for recycling or disposal.

Local legislation: Disposal of waste must comply with applicable regional, national and local laws and regulations. Local regulations may be more strict than regional and national requirements and must be followed.

14. TRANSPORT INFORMATION

ADR/RID; IMDG; ICAO/IATA: UN Number: UN 1993

ADR/RID; IMDG; ICAO/IATA: Proper UN transport name: UN 1993 FLAMMABLE LIQUID N.O.S

ADR/RID; IMDG; ICAO/IATA: Transport class: 3

ADR/RID; IMDG; ICAO/IATA: Packing group: lll

ADR/RID; IMDG; ICAO/IATA: Environmental hazards: Aquatic Chronic 2 H411

Special precautions for user: No information available

MARPOL: No information available.

15. REGULATORY INFORMATION

REPUBLIC OF TURKEY This document has been prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Preparations which was published in Official Gazette dated 13 December 2014 and numbered 29204, by the Ministry of Environment and Urbanization.

Regulation on the classification, labeling, and packaging of substances and mixtures. Official Gazette dated 11.12. 2013, numbered 288448.

Regulation on the transport of dangerous materials by road, Official Gazette dated 24.10.2013, numbered 28801.

16. OTHER INFORMATION

Revision: Prepared for the first time. This MSDS has been prepared according to the regulation on safety data sheet no. 29204 dated 13.12.2014.

Abbreviations:

STOT	Specific target organ toxicity
MSDS	Material Safety Data Sheet
PBT	Persistent Bioaccumulative and Toxic
DNEL	Derived no-effect level (DNEL)
vPvB	Very persistent and very bioaccumulative
ADR	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADNR	The European Agreement concerning the international carriage of Dangerous goods on the Rhine river
BCF	Biological concentration factor
BetrSchV	Operational safety guidance
CMR	Carcinogenic, Mutagenic or Toxic for Reproduction
GLP	Good laboratory practice
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LOAEL	Lowest-observed-adverse-effect level of the chemical at animal experts.
LOEL	Lowest-observed-effect level of the chemical at animal experts.
NOAEL	No-observed-adverse-effect level (Highest dose at which there was not an observed toxic or adverse effect).

OECD	Organisation for Economic Co-operation and Development
PNEC	Predicted No Effect Concentration (the concentration below which exposure to a substance is not expected to cause adverse effects).
RID	International Transport of Dangerous Goods by Rail
TA	Technical Arrangement
TRGS	The Technical Rules for Hazardous Substances
VCI	Chemicals Industry Association
VOC	Volatile organic compounds
VwVwS	Regulation on the Classification of Substances Hazardous to Water
WGK	Classification Hazards to Water
EC50	Concentration with medium activity
STOT	Specific target organ toxicity
OEL	Occupational exposure limits
PEC	Predicted Environmental Concentrations
NOEC	No observed effect concentration
NOEL	No-observed-effect level (Highest dose at which there was not an observed toxic effect).
ISO	International Organization for Standardization
DIN	German Standards Institute
TWA	Time Weighted Average for the exposure to a chemical
STEL	Short-term exposure limit

This MSDS has been prepared by using the data received from the supplier, and Annex-6 of SAE regulation.

Hazards statements:

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.