

SAFETY DATA SHEET BOR YAGI

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 number

Product name BOR YAGI

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

Identified uses Cutting oil.

Uses advised against Use only for intended applications.

26112

1.3. Details of the supplier of the safety data sheet

Supplier PETROL OFISI A.Ş.

Ünalan Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ Istanbul

Tel: +90 850 339 1919 Fax: +90 216 275 3854 madeniyag@petrolofisi.com.tr

Contact person Customer Services: madeniyag@petrolofisi.com.tr

1.4. Emergency telephone number

Emergency telephone Madeni Yağ Customer Services: 0850 339 1919 (working hours)

National emergency telephone Emergency Medical Services: 112 National Poison Consultance Center: 114

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

BOR YAGI

Precautionary statements P264 Wash contaminated skin thoroughly after handling.

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

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

No other information known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Lubricating Oils, complex combination of hydrocarbons obtained from solvent extraction and dewaxing.(C15-C50)

80-95%

CAS number: 74869-22-0 EC number: 278-012-2

See Section 8 for occupational exposure limits.

Classification

Not Classified

Fatty acids, tall-oil, potassium salts

5-10%

CAS number: — EC number: 263-136-1

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

N,N,metilenbismorfolin 1-5%

CAS number: — EC number: 227-062-3

M factor (Acute) = 1

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1C - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400

Sodium petroleum sulfonates 1-5%

CAS number: — EC number: 271-781-5

Classification

Eye Irrit. 2 - H319

BOR YAGI

Ethanolamine tall oil amide

CAS number: — EC number: 267-053-1

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Hexylene glycol <1%

CAS number: — EC number: 203-489-0

Classification

Eye Irrit. 2 - H319

Triethanolamine esters <1%

CAS number: — EC number: 267-053-1

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Fuelsi diesel <1%

CAS number: 68334-30-5 EC number: 269-822-7

Classification

Carc. 2 - H351

morfolin <1%

CAS number: —

M factor (Acute) = 1

Classification

Flam. Liq. 3 - H226

Met. Corr. 1 - H290

Acute Tox. 4 - H302

Acute Tox. 3 - H331

Skin Corr. 1A - H314

Eye Dam. 1 - H318

Aquatic Acute 1 - H400

Aquatic Chronic 2 - H411

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

Composition comments Some substances are not classified by legistlation. They are self classified by the

manufacturer. The DMSO extract by IP 346 of the oil is less than 3%

Ingredient notes See Section 8 for occupational exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

BOR YAGI

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical

attention if any discomfort continues.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse

mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open

eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention

immediately. Continue to rinse.

Protection of first aidersFirst aid personnel should wear appropriate protective equipment during any rescue.

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

General information See Section 11 for additional information on health hazards.

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact Irritating.

Eye contact Irritating.

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

Notes for the doctor Treat symptomatically.

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Thermal decomposition may produce smoke, oxies of carbon and lower molecular weight

organic compounds whos composition have not been characterised. Combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide, oxides of sulfur, and unidentified organic and inorgaic compounds.

Hazardous combustion

products

A complex mixture of airborne solids, liquids and gases can be released. Smoke and irritating vapours as products of incomplete combustion. Unidentified organic or inorganic compounds.

5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours.

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.

BOR YAGI

For non-emergency personnel Necessary precautions should be taken to ensure that non-educated personnel do not

intervene.

For emergency responders Notification: In case of spillage, notify the local authorities as appropriate or as necessary.

Stop the leakage source if it can be done without risk.Limit spillage to prevent further contamination of soil, surface or ground water.Remove any spilled material as soon as possible by following the precautions in the section Exposure Controls / Personal Protection.Use suitable techniques such as non-flammable absorbent materials or pumping.When possible or appropriate, remove the contaminated soil from the area.Place contaminated products in disposable boxes and dispose of in accordance with regulations.If a heated material is spilled, allow it to cool before handling with disposal methods. Proper

ventilation should be provided.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into

containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering

drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections See Section 7 for more information on safe handling. 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes.

Advice on general occupational hygiene

Persons susceptible to allergic reactions should not handle this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene

procedures should be implemented.

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 Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description The product must be used as specified in the data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Lubricating Oils, complex combination of hydrocarbons obtained from solvent extraction and dewaxing.(C15-C50)

None of the components has assigned exposure limits.

Ingredient comments WEL = Workplace Exposure Limits

Biological limit values No other information known.

BOR YAGI

DNEL No other information known.

DMEL No other information known.

PNEC No other information known.

Lubricating Oils, complex combination of hydrocarbons obtained from solvent extraction and dewaxing.(C15-C50) (CAS: 74869-22-0)

Ingredient comments There is no approximate limit value for this product. Steam, fog or smoke should be

controlled to the lowest possible level.

Biological limit values No information available.

DNEL No information available.

DMEL No information available.

PNEC No information available.

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. Koruyucu elbise ve önlüklerin düzenli bakımı yapılmalıdır.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or

face shield.

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

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat,

drink or smoke.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

Thermal hazards

If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.

Environmental exposure

controls

Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

BOR YAGI

Colour Yellow.

Odour Characteristic.

Odour threshold No other information known.

pH No other information known.

Melting point No other information known.

Initial boiling point and range No other information known.

Flash point No other information known.

Evaporation rate No information available.

Evaporation factor No other information known.

Flammability (solid, gas) No other information known.

Upper/lower flammability or

explosive limits

No other information known.

Other flammability No other information known.

Vapour pressure No other information known.

Vapour density No other information known.

Relative density No other information known.

Bulk density ~ 0,88 g/ml

Solubility(ies) No specific test data are available.

Partition coefficient No specific test data are available.

Auto-ignition temperature No specific test data are available.

Decomposition Temperature No specific test data are available.

Viscosity 22 cSt @ 40°C

Explosive properties No specific test data are available.

Explosive under the influence

of a flame

No other information known.

Oxidising properties No other information known.

Comments No other information known.

9.2. Other information

Other information No information required.

Refractive index No specific test data are available.

Particle size No specific test data are available.

Molecular weight No specific test data are available.

Volatility No specific test data are available.

Saturation concentration No specific test data are available.

Critical temperature No specific test data are available.

Volatile organic compound No specific test data are available.

BOR YAGI

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Strong acids. Strong alkalis. Strong reducing agents. Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Under normal conditions of storage and use, no hazardous reactions will occur.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid contact with strong oxidising

agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

No other information known.

Other health effects

No other information known.

Acute toxicity - oral

Summary No other information known.

Notes (oral LD₅₀) No specific test data are available.

ATE oral (mg/kg) 25,000.0

Acute toxicity - dermal

Summary No other information known.

Notes (dermal LD₅₀) No specific test data are available.

Acute toxicity - inhalation

Summary No other information known.

Notes (inhalation LC₅₀) No specific test data are available.

ATE inhalation (vapours mg/l) 550.0

Skin corrosion/irritation

Summary No other information known.

Skin corrosion/irritation Based on available data the classification criteria are not met.

Animal data Based on available data the classification criteria are not met.

Human skin model testBased on available data the classification criteria are not met.

Extreme pH Based on available data the classification criteria are not met.

Serious eye damage/irritation

BOR YAGI

Summary No other information known.

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Summary No other information known.

Respiratory sensitisation No specific test data are available.

Skin sensitisation

Summary No other information known.

Skin sensitisation No specific test data are available.

Germ cell mutagenicity

Summary No other information known.

Genotoxicity - in vitroNo specific test data are available.

Genotoxicity - in vivoNo specific test data are available.

Carcinogenicity

Summary No other information known.

Carcinogenicity No specific test data are available.

Target organ for carcinogenicity

No specific target organs known.

IARC carcinogenicity

No other information known.

NTP carcinogenicity No other information known.

Reproductive toxicity

Summary No other information known.

Reproductive toxicity - fertility No specific test data are available.

Reproductive toxicity -

development

No other information known.

Specific target organ toxicity - single exposure

Summary No other information known.

STOT - single exposure Based on available data the classification criteria are not met.

Target organs No specific target organs known.

Specific target organ toxicity - repeated exposure

Summary No other information known.

STOT - repeated exposure Based on available data the classification criteria are not met.

Target organs No specific target organs known.

Aspiration hazard

Summary No other information known.

Aspiration hazard No other information known.

Toxicokinetics

No other information known.

General information

No other information known.

BOR YAGI

Inhalation Irritating to respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Liquid may irritate skin.

Eye contact Risk of serious damage to eyes.

Acute and chronic health

hazards

No other information known.

Route of exposure No other information known.

Target organs No specific target organs known.

Medical symptoms No other information known.

Medical considerations No other information known.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity Avoid discharge into drains or watercourses or onto the ground.

Acute aquatic toxicity

Summary No other information known.

Acute toxicity - fish No specific test data are available.

Acute toxicity - aquatic

invertebrates

No other information known.

Acute toxicity - aquatic plants No other information known.

Acute toxicity - No other information known.

microorganisms

Acute toxicity - terrestrial No other information known.

Chronic aquatic toxicity

Summary No other information known.

Chronic toxicity - fish early life

stage

No other information known.

Short term toxicity - embryo

and sac fry stages

No other information known.

Chronic toxicity - aquatic

invertebrates

No other information known.

Toxicity to soil No other information known.

Toxicity to terrestrial plants No other information known.

12.2. Persistence and degradability

Persistence and degradability No other information known.

Phototransformation No specific test data are available.

Stability (hydrolysis)No specific test data are available.

Biodegradation No specific test data are available.

BOR YAGI

Biological oxygen demand No specific test data are available.

Chemical oxygen demand No specific test data are available.

12.3. Bioaccumulative potential

Bioaccumulative potential

No specific test data are available.

Partition coefficient

No specific test data are available.

12.4. Mobility in soil

Mobility The product is soluble in water.

Adsorption/desorption

coefficient

No specific test data are available.

No specific test data are available.

Henry's law constant No specific test data are available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

Surface tension

No other information known.

12.6. Other adverse effects

Other adverse effects No other information known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Dispose of waste

to licensed waste disposal site in accordance with the requirements of the local Waste

Disposal Authority.

Disposal methodsDisposal of this product, process solutions, residues and by-products should at all times

comply with the requirements of environmental protection and waste disposal legislation and

any local authority requirements.

Waste class

The waste code classification is to be carried out according to the European Waste Catalogue

(EWC).

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

BOR YAGI

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 and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations T. C. Environment and urban ministry, mplementing Regulation on the Classification, Labeling

and Packaging of Substances and Mixtures, No. 28848, dated December 11, 2013

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC.

Source: European Chemicals Agency, http://echa.europa.eu/

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

E.U.: European union

DMSO: Dimethyl sulfoxide

KKE: Personal protective aquipment UZEM: National Poison Information Center

TWA: Workplace exposure limits

T.C.: Republic of Turkey
DNEL: Derived No Effect Level.
CAS: Chemical Abstracts Service.

Classification abbreviations

and acronyms

Acute Tox. = Acute toxicity
Flam. Liq. = Flammable liquid
Asp. Tox. = Aspiration hazard
Skin Corr. = Skin corrosion
Skin Irrit. = Skin irritation
Eye Irrit. = Eye irritation

Met. Corr. = Corrosive to metals

Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

General information

Only trained personnel should use this material. This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters. Uses and Restrictions: This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. MSDS Distribution: The information in this document should be made available to all who may handle the product. Disclaimer: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

BOR YAGI

Key literature references and

sources for data

This SDS is prepared based on the information received from raw material suppliers.

Classification procedures according to Regulation (FC)

according to Regulation (EC) 1272/2008

Eye Irrit. 2 - H319, Skin Irrit. 2 - H315: Calculation method., Supplier information Not classified for physical hazards., Not classified for environmental hazards.: Calculation method., Supplier

information

Training advice Untrained personnel should not use.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by Emrah Parmak Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate

Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)

Revision date 17/06/2020

Revision 4

Supersedes date 17/06/2011

SDS number 10122

Hazard statements in full H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H351 Suspected of causing cancer if swallowed.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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.