



SAFETY DATA SHEET

BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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

1.1. Product identifier

Product name BOR YAGI

Product number 26112

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.

1.3. Details of the supplier of the safety data sheet

Supplier PETROL OFİSİ A.Ş.
Ünalan Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ İstanbul
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 number Emergency Medical Services: 112 National Poison Consultance Center: 114

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

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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 5,1 CAS number: 61790-44-1 EC number: 263-136-1
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
N,N,metilenbismorfolin 1-5% CAS number: 5625-90-1 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



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

Ethanolamine tall oil amide		1-5%
CAS number: 67784-78-5	EC number: 267-053-1	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		
Sodium petroleum sulfonates		1-5%
CAS number: 68608-26-4	EC number: 271-781-5	
Classification Eye Irrit. 2 - H319		

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

Composition comments Some substances are not classified by legislation. 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.
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 aiders	First 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



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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.

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.



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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.

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.



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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.
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.



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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.
Particle characteristic	Not applicable

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.

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

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 (CO ₂).
---	--

SECTION 11: Toxicological information



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

11.1. Information on toxicological effects

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

Other health effects	No other information known.
Toxicological effects	No other information known.
Acute toxicity - oral	
Summary	No other information known.
Notes (oral LD ₅₀)	No specific test data are available.
ATE oral (mg/kg)	25,000.0
Acute toxicity - dermal	
Summary	No other information known.
Notes (dermal LD ₅₀)	No specific test data are available.
Acute toxicity - inhalation	
Summary	No other information known.
Notes (inhalation LC ₅₀)	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 test	Based 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	
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 vitro	No specific test data are available.
Genotoxicity - in vivo	No specific test data are available.



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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.

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.

11.2 Information on other hazards



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

Information on other hazards No available information.

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 - microorganisms No other information known.

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.

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.



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

Adsorption/desorption coefficient No specific test data are available.

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

Surface tension No specific test data are available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No other information known.

12.6 Endocrine disrupting properties

Endocrine disrupting properties

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 methods Disposal 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

UN number or ID 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

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.



BOR YAGI

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Maritime transport in bulk
according to IMO instruments

Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC Code

Not applicable.

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, implementing 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 equipment
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

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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 (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	Revised classification.
Issued by	Sena Ezgi Selçuk Chemical Assessment Specialist (Certificate No: KDU01.29.06 17.12.2027)
Revision date	05/04/2024
Revision	6
Supersedes date	17/06/2011
SDS number	10122
Hazard statements in full	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. H332 Harmful if inhaled. H400 Very toxic to aquatic life.

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.