

# SAFETY DATA SHEET TURBINE OIL TX-46

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 TURBINE OIL TX-46

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

Identified uses Industrial oil

Uses advised against This product must not be used outside of the practices recommended in Section 1 without prior advice

from the supplier.

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 Müşteri Hizmetleri: 0850 339 19 19 (mesai saatleri)

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 Not Classified

**Environmental hazards** Aquatic Chronic 3 - H412

**Environmental** The product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard statements H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains Aryl amine. May produce an allergic reaction.

**Precautionary statements** P273 Avoid release to the environment.

P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

As supplied, the material does not present a health hazard.

# SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures



# **TURBINE OIL TX-46**

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Lubricating Oils, complex combination of hydrocarbons obtained

95-100%

from solvent extraction and dewaxing.(C15-C50)

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

See Section 8 for occupational exposure limits.

Classification

Not Classified

Alkyl phenol <1%

CAS number: -

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Aryl amine <1%

 ${\sf CAS\ number:--}$ 

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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.

**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 any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes.

Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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



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

General information Treat symptomatically.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

Skin contact

No specific symptoms known.

Eye contact

No specific symptoms known.

#### 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 Not known.

Hazardous combustion products A complex mixture of airborne solids, liquids and gases can be released. Carbon monoxide (CO). Oxides

of sulphur. Unidentified organic or inorganic compounds. Oxides of carbon. Carbon dioxide (CO2).

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.

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



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

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 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

Do not eat, drink or smoke when using 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.

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

There is no available data.

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

None of the components has assigned exposure limits.

Ingredient comments Oil Mist TWA: 5 mg /m3 (ACGIH). Distillates (petroleum) hydrotreated heavy parafinic: EU OEL (Eu.)

TWA: 5 mg/m3 (8 h.)

Biological limit values There is no available data.

DNEL There is no available data.

DMEL There is no available data.

PNEC There is no available data.

# 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.



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

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.

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 Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the

toilet. Wash promptly if skin becomes contaminated. 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 specific test data are available.

**pH** Scientifically unjustified.

**Melting point** No information available.

Initial boiling point and range No information available.

**Flash point** min. 188°C OC (Open cup).

**Evaporation rate** No information available.

**Evaporation factor** No information available.

Flammability (solid, gas) No information available.



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Upper/lower flammability or

explosive limits

No specific test data are available.

Other flammability No specific test data are available.

Vapour pressure No information available. Vapour density No information available.

Relative density 0,90 g/ml @ 15°C

**Bulk density** ~ 0,887 @15°C g/ml

Solubility(ies) Insoluble in water.

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.

41,4-50,6 cSt @ 40°C Viscosity

**Explosive properties** Not considered to be explosive.

Explosive under the influence of a No suitable data is available.

flame

The mixture itself has not been tested but none of the ingredient substances meet the criteria for

classification as oxidising.

Comments Information declared as "Not available" or "Not applicable" is not considered to be relevant to the

implementation of the proper control measures.

Particle characteristic Not applicable.

9.2. Other information

Oxidising properties

Other information No information required. Refractive index No information available. Particle size No information available. Molecular weight No information available. Volatility No information available. Saturation concentration No information available. Critical temperature No information available. Volatile organic compound No information available.

#### SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions



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

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 the following materials: Oxidising

agents. Reducing agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition Fire creates: Carbon monoxide (CO2). Carbon dioxide (CO2). Methacrylates. Oil vapors in case of

**products** overheating.

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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

1272/2008

Other health effects No relevant information available.

products.

Acute toxicity - oral

**Summary** Based on available data, the classification criteria are not met.

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

**Summary** Based on the available data, the classification criteria are not met.

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

**Summary** Basen on the available data, the classification criteria are not met.

Notes (inhalation LC₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

**Summary** Basen on the available data, the classification criteria are not met.

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

Animal data Inconclusive data.

Human skin model test Inconclusive data.

Extreme pH Inconclusive data.

Serious eye damage/irritation

**Summary** Based on available data, the classification criteria are not met.

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

Respiratory sensitisation

Summary Based on available data, the classification criteria are not met. Mist may cause slight irritation if inhaled.



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

Respiratory sensitisation Inconclusive data.

Skin sensitisation

**Summary** Does not meet the classification criteria.

Skin sensitisation Inconclusive data.

Germ cell mutagenicity

Summary It is not expected to cause genetic damage in the light of current data.

Genotoxicity - in vitro Inconclusive data.

Genotoxicity - in vivo Inconclusive data.

Carcinogenicity

**Summary** The base oils in the product content contain less than 3% DMSO according to IP 346.

**Carcinogenicity** Based on available data the classification criteria are not met.

Target organ for carcinogenicity No specific target organs known.

Reproductive toxicity

**Summary**There is no test data indicating that this product has a toxic effect on the reproductive system.

**Reproductive toxicity - fertility** Inconclusive data.

Reproductive toxicity -

development

No information is required.

Specific target organ toxicity - single exposure

**Summary** There is no available data.

STOT - single exposure Inconclusive data.

**Target organs** No specific target organs known.

Specific target organ toxicity - repeated exposure

**Summary** There is no available data.

STOT - repeated exposure Inconclusive data.

Target organsNo specific target organs known.

Aspiration hazard

Summary Slight irritation of the respiratory tract may occur, if mists are inhaled.

Aspiration hazard Based on available data, the classification criteria are not met.

**Toxicokinetics** No information is required.

**General information** Information given is based on data of the components and of similar products.

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following

overexposure may include the following: Coughing.

Ingestion May cause discomfort if swallowed.

**Skin contact** Liquid may irritate skin.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.



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 $\begin{tabular}{lll} \textbf{Acute and chronic health hazards} & There is not enough data. \end{tabular}$ 

Route of exposure There is no available data.

Target organs

No specific target organs known.

Medical symptoms

No specific tes data are available.

Medical considerations

No specific tes data are available.

11.2 Information on other hazards

Information on other hazards This substance does not have endocrine disrupting properties.

#### SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

12.1. Toxicity

**Toxicity** There is not enough data.

Acute aquatic toxicity

Summary Based on available information, the classification criteria are not met.

Acute toxicity - fish Based on available data the classification criteria are not met.

Acute toxicity - aquatic

invertebrates

Based on available data the classification criteria are not met.

Acute toxicity - aquatic plants

Based on available data the classification criteria are not met.

Acute toxicity - microorganisms

Based on available data the classification criteria are not met.

Acute toxicity - terrestrial No information required.

Chronic aquatic toxicity

**Summary** Based on available information, the classification criteria are not met.

Chronic toxicity - fish early life

stage

No information required.

Short term toxicity - embryo and

sac fry stages

No information required.

Chronic toxicity - aquatic

invertebrates

Based on available data the classification criteria are not met.

Toxicity to soil There is not enough data.

Toxicity to terrestrial plants There is not enough data.

12.2. Persistence and degradability

Persistence and degradability Based on available information, the classification criteria are not met.

PhototransformationNo specific test data are available.Stability (hydrolysis)No specific test data are available.BiodegradationNo specific test data are available.Biological oxygen demandNo specific test data are available.



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Chemical oxygen demand No specific test data are available.

12.3. Bioaccumulative potential

**Bioaccumulative potential**No information required.

Partition coefficient No specific test data are available.

12.4. Mobility in soil

Mobility The product is immiscible with water and will spread on the water surface.

No specific test data are available.

Adsorption/desorption coefficient 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 data available.

12.6 Endocrine disrupting

properties

**Endocrine disrupting properties** This product does not have endocrine disrupting properties.

12.6. Other adverse effects

Other adverse effects This product contains components that have a harmful effect on the aquatic environment.Do not allow to

enter into soil, rivers or sewers.

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

**Disposal methods**Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste

Disposal Authority.

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).

Road transport notesNot classified.Rail transport notesNot classified.Sea transport notesNot classified.Air transport notesNot classified.

14.1. UN number

UN number or ID number

Not applicable.

14.2. UN proper shipping name



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Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### Transport labels

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.

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

Maritime transport in bulk

according to IMO instruments

Not applicable.

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. Regulation on the Classification, Labeling and Packaging of Substances and Mixtures No. 28848,

dated 11 December 2013, by the Ministry of Environment and Urbanization.

T. C. Ministry of Environment and Urbanization Regulation on Safety Data Sheets on Hazardous

Substances and Mixtures

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

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

**Guidance** Safety Data Sheets for Substances and Preparations.

Health and environmental listings Hazardous ingredients are listed.

15.2. Chemical safety assessment

SECTION 16: Other information



# **TURBINE OIL TX-46**

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Abbreviations and acronyms used DMSO: Dimethyl sulfoxide in the safety data sheet E.U.: European union

KKE: Personal protective aquipment

T.C.: Republic of Turkey
TWA: Workplace exposure limits

UZEM: National Poison Information Center

ATE: Acute Toxicity Estimate.

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

CAS: Chemical Abstracts Service.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅o: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No

1907/2006

vPvB: Very Persistent and Very Bioaccumulative.
NOEC: No Observed Effect Concentration.
FCsc: 50% of maximal Effective Concentration

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. 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.

Key literature references and sources for data

This SDS is prepared based on the information received from raw material suppliers. Source: European Chemicals Agency, http://echa.europa.eu/

Classification procedures according to Regulation (EC) 1272/2008

Not classified for health hazards.: Calculation method., Supplier information Not classified for environmental hazards.: Calculation method., Supplier information Not classified for physical 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 20/01/2025

Revision 4

Supersedes date 17/06/2011
SDS number 10274
SDS status Approved.

Hazard statements in full H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains Aryl amine. May produce an allergic reaction.



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

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.