

This Safety Data Sheet is prepared according to "Regulation on the Safety Data Sheets Relating to Hazardous Substances and Mixtures" published with the date of 13 December 2014 and No.29204 at Official Gazette.

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

1.1 Product Identifier

Material Name: Jet A-1

CAS No : 8008-20-6

EC No : 232-366-4

Other Names of Products:

Tüpraş-330 Jet Fuel (F-34)

Tüpraş-340 Jet Fuel (F-44)

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

It is used as aviation turbine engine fuel.

1.3 Details of the supplier of the substance or mixture

Manufacturer/Supplier : Tüpraş

Adress : Türkiye Petrol Rafinerileri A.Ş. Genel Müdürlüğü KÖRFEZ/ KOCAELİ

Telephone : +90-262 316 30 00

Fax : +90-262 316 30 10-11

e-mail : omer.ocak@tupras.com.tr

sinasi.seymenbasi@tupras.com.tr

1.4 Emergency Telephone Number

Telephone : 114 (UZEM)

2- HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Aspiration hazard, Category 1	H304
Specific target organ toxicity - single exposure,	H336

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

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Category 3,	
Hazardous to the aquatic environment – Longterm Hazard, Category 2	H411

2.2 Label Elements

Symbols:



GHS02

GHS07

GHS08

GHS09

Signal Word: Danger

Hazard statements

Physical Hazards:

H226- Flammable liquid and vapor.

Health hazards:

H304- May be fatal if swallowed and enters airways.

H315- Causes skin irritation.

H336- May cause drowsiness or dizziness.

Environmental Hazards:

H411- Toxic to aquatic life with long lasting effects.

Precautionary statements:

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SINASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

Dok. No : TPR.ÜPM.SDS.0300
Yayın Tarihi : 30.10.1999
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Sayfa No : 3/15

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Prevention:

P210 : Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P260 : Do not breathe dust/fume/gas/mist/vapours/spray..

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

Response:

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

P331: **Do NOT induce vomiting.**

Disposal:

P501 : Dispose of contents and container to appropriate waste site or reclaimed in accordance with local and national regulations.

2.3 Other hazards

Slightly irritating to respiratory system.

3- COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

CAS NO:	EINECS NO:	Chemical Composition	Concentration	Risk Phrases
8008-20-6	232-366-4	It consists of hydrocarbons having carbon numbers predominantly between C9 C16.	100	Flammable liquids,3 H226 Skin corrosion/irritation, 2 H315 Aspiration hazard, 1 H304 Specific target organ toxicity - single

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SİNASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

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Rev. No : 6
Rev.Tarihi : 25.11.2016
Sayfa No : 4/15

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				exposure,3 H336 Hazardous to the aquatic environment – Longterm Hazard, 2 H411
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3.2 Mixtures

Not applicable.

4- FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Skin Contact: Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.

Eye contact: Flush eyes with water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist transport to the nearest medical facility for additional treatment.

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SINASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

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Ingestion: If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion or large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.

4.2 Most important symptoms/effects, acute & delayed

Inhalation: If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath.

Skin Contact: Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

Eye contact: Eye irritation signs and symptoms may include a burning sensation and a temporary redness of the eye.

Ingestion: Swallowing can cause lung damage.

4.3 Indication of immediate medical attention and special treatment needed

There is no specific antidote or treatment. It should be treated symptomatically.

5- FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

5.2 Special hazards arising from substance or mixture

Combustion results from toxic gases. It can burn at high temperatures.

5.3 Advice for fire-fighters

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SİNASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

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Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

6- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8.

6.2 Environmental precautions

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

6.3 Methods and material for containment and cleaning up

Take precautionary measures against static discharges. For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

6.4 Reference to other sections

Refer to sections 8 and 13.

7- HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Avoid inhaling vapour and/or mists. Avoid prolonged or repeated contact with skin. When using do not

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SINASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

Dok. No : TPR.ÜPM.SDS.0300
Yayın Tarihi : 30.10.1999
Rev. No : 6
Rev.Tarihi : 25.11.2016
Sayfa No : 7/15

This Safety Data Sheet is prepared according to "Regulation on the Safety Data Sheets Relating to Hazardous Substances and Mixtures" published with the date of 13 December 2014 and No.29204 at Official Gazette.

eat or drink. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Earth all equipment. Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

7.2 Conditions for safe storage, including any incompatibilities

Drum and small container storage: Drums should be stacked to a maximum of 3 high. Use properly labelled and closeable containers. Take suitable precautions when opening sealed containers, as pressure can build up during storage. Tank storage: Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded). Locate tanks away from heat and other sources of ignition. The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.

7.3 Specific end use

Except as provided in Section 1.2 is not required to offer any specific suggestions.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The following limits are recommended.

TWA(8 hours) : 200 ppm (ACGIH- Total hydrocarbon)

8.2 Exposure controls

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SİNASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

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8.2.1 Appropriate engineering controls

Ensure good ventilation.

8.2.2 Personal protective precautions

Personal Protective Equipment: Personal protective equipment (PPE) should meet recommended national standards.

Eye Protection: Chemical splash goggles (chemical monogoggles).

Skin Protection: Protective clothing and gloves should be used.

Protective clothing : Chemical resistant gloves are recommended. Safety glasses with side shields are recommended.

9- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Test Unit	Guarantee	Test Method
Appearance		Colorless	Visual inspection
Odour		Hydrocarbon	
Odour threshold		No data	
pH		No data	
Melting point / freezing point	°C	-47 max	ASTM D 2386 ASTM D 5972

REVİZE EDEN	ONAYLAYAN	
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SINASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

Dok. No : TPR.ÜPM.SDS.0300
Yayın Tarihi : 30.10.1999
Rev. No : 6
Rev.Tarihi : 25.11.2016
Sayfa No : 9/15

This Safety Data Sheet is prepared according to "Regulation on the Safety Data Sheets Relating to Hazardous Substances and Mixtures" published with the date of 13 December 2014 and No.29204 at Official Gazette.

Initial boiling point and boiling range	°C	150-300	ASTM D 86 IP 123
Evaporation rate		No data	
Flammability		No data	
Upper / lower flammability or explosive limits	%(V)	1/6	
Vapor Pressure		No data	
Vapor density		No data	
Relative density (at 15 °C)	Kg/L	0.775-0.840	ASTM D 1298 ASDM D 4052 IP 160 IP 365
Resolution		No data	
Partition coefficient: n-octanol / water		No data	
Decomposition temperature		No data	
Fluidity (Viscosity) (-20 °C)	cSt	8.5 max	ASTM D 445 IP 71
Ignition temperature	°C	>38	ASTM D 3828 ASTM D 56 IP 170 IP 523
Explosive properties		No data	
Oxidising properties		No data	

9.2 Other Information

Mixibility	No data
Oil solubility	No data
Conductivity	No data

10- STABILITY AND REACTIVITY:

10.1 Reactivity

Stable at ambient temperatures. Hazardous polymerisation reactions will not occur.

10.2 Chemical Stability

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SİNASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

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No hazardous reaction is expected when handled and stored according to provisions.

10.3 Possibility of Hazardous Reactions

Product vapors may form explosive mixtures with air.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity: Low toxicity: LD50 > 5000 mg/kg , Rat

Acute Dermal Toxicity: Low toxicity: LD50 >2000 mg/kg , Rabbit

Acute Inhalation Toxicity: Low toxicity: LC50 >5 mg/l , 4 h, Rat

Skin corrosion/irritation: Irritating to skin

Serious eye damage/irritation: Expected to be slightly irritating.

REVİZE EDEN	ONAYLAYAN	
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SINASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

Dok. No : TPR.ÜPM.SDS.0300
Yayın Tarihi : 30.10.1999
Rev. No : 6
Rev.Tarihi : 25.11.2016
Sayfa No : 11/15

This Safety Data Sheet is prepared according to "Regulation on the Safety Data Sheets Relating to Hazardous Substances and Mixtures" published with the date of 13 December 2014 and No.29204 at Official Gazette.

Respiratory Irritation: Inhalation of vapours or mists may cause irritation to the respiratory system.

Respiratory or skin sensitisation: Not expected to be a sensitiser.

Aspiration Hazard: Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Germ cell mutagenicity: Not considered a mutagenic hazard.

Carcinogenicity: Not classified as a carcinogen.

Reproductive and Developmental Toxicity: Not expected to impair fertility. Not expected to be a developmental toxicant.

Specific target organ toxicity - single exposure: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

Specific target organ toxicity - repeated exposure: Kidney: caused kidney effects in male rats which are not considered relevant to humans.

12- ECOLOGICAL INFORMATION

12.1 Toxicity

The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity:

Fish: Expected to be toxic: LL/EL/IL50 > 1 <= 10 mg/l

Aquatic crustacea: Toxic: LL/EL/IL50 > 1 <= 10 mg/l

Algae/aquatic plants: Toxic: LL/EL/IL50 > 1 <= 10 mg/l

Chronic Toxicity:

Fish: NOEC/NOEL expected to be > 0.01 - <= 0.1 mg/l (based on modeled data)

Aquatic crustacea: NOEC/NOEL > 0.1 - <=1.0 mg/l

12.2 Persistence and degradability

REVİZE EDEN	ONAYLAYAN	
ÜRETİM PLANLAMA BASMÜHENDİSİ	HAMPETROL İKMAL&ÜRETİM PLN. DİREKTÖRÜ	GENEL MÜDÜR YARDIMCISI
SİNASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

Dok. No : TPR.ÜPM.SDS.0300
Yayın Tarihi : 30.10.1999
Rev. No : 6
Rev.Tarihi : 25.11.2016
Sayfa No : 12/15

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Major constituents are expected to be inherently biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.

12.3 Bio accumulative potential

Contains constituents with the potential to bioaccumulate.

12.4 Mobility in soil

Evaporates within a day from water or soil surfaces. Large volumes may penetrate soil and could contaminate groundwater. Contains volatile constituents. Floats on water.

12.5 Results of PBT and vPvB assessment

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

12.6 Other adverse effects

Films formed on water may affect oxygen transfer and damage organisms.

13- DISPOSAL CONSIDERATIONS

3.1 Waste treatment methods

Material Disposal:

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations,

REVİZE EDEN	ONAYLAYAN	
ÜRETİM PLANLAMA BASMÜHENDİSİ	HAMPETROL İKMAL&ÜRETİM PLN. DIREKTÖRÜ	GENEL MÜDÜR YARDIMCISI
SINASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

Dok. No : TPR.ÜPM.SDS.0300
Yayın Tarihi : 30.10.1999
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Rev.Tarihi : 25.11.2016
Sayfa No : 13/15

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preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Container Disposal:

Send to drum recoverer or metal reclaimer. Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard if heated above the flash point. Do not puncture, cut or weld uncleaned drums. Do not pollute the soil, water or environment with the waste container. Comply with any local recovery or waste disposal regulations.

Local Legislation:

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be in compliance.

14- TRANSPORT INFORMATION

Land transport (ADR/RID):

ADR

14.1 UN Number : 1863

14.2 UN proper shipping name : FUEL, AVIATION, TURBINE ENGINE

14.3 Transport hazard class(es) : 3

14.4 Packing group : III

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

RID

14.1 UN Number : 1863

14.2 UN proper shipping name : FUEL, AVIATION, TURBINE ENGINE

REVİZE EDEN	ONAYLAYAN	
ÜRETİM PLANLAMA BASMÜHENDİSİ	HAMPETROL İKMAL&ÜRETİM PLN. DİREKTÖRÜ	GENEL MÜDÜR YARDIMCISI
SİNASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVIATION TURBINE FUEL**

Dok. No : TPR.ÜPM.SDS.0300
Yayın Tarihi : 30.10.1999
Rev. No : 6
Rev.Tarihi : 25.11.2016
Sayfa No : 14/15

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14.3 Transport hazard class(es) : 3

14.4 Packing group : III

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

Sea transport (IMDG Code):

14.1 UN Number : 1863

14.2 UN proper shipping name : FUEL, AVIATION, TURBINE ENGINE

14.3 Transport hazard class(es) : 3

14.4 Packing group : III

14.5 Marine pollutant : Yes

14.6 Special precautions for user : Refer to Chapter 7

Air transport (IATA):

14.1 UN Number : 1863

14.2 UN proper shipping name : FUEL, AVIATION, TURBINE ENGINE

14.3 Transport hazard class(es) : 3

14.4 Packing group : III

14.5 Environmental hazards :

14.6 Special precautions for user : Refer to Chapter 7

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

No data

15- REGULATORY INFORMATION

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

REVİZE EDEN	ONAYLAYAN	
ÜRETİM PLANLAMA BASMÜHENDİSİ	HAMPETROL İKMAL&ÜRETİM PLN. DIREKTÖRÜ	GENEL MÜDÜR YARDIMCISI
SINASI SEYMENBASİ	ATILLA ULUSU	HASAN TAN

**SAFETY DATA SHEET JET A-1,
AVATION TURBINE FUEL**

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16- OTHER INFORMATION

Hazard Statements:

- H226-** Flammable liquid and vapor.
H304- May be fatal if swallowed and enters airways.
H315- Causes skin irritation.
H336- May cause drowsiness or dizziness.
H411- Toxic to aquatic life with long lasting effects.

The information presented about health, safety and environment issues in this safety data sheet was given by considering of best knowledge and reliable sources at the date of its preparation. Although maximum effort was shown, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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REVİZE EDEN	ONAYLAYAN	
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SİNASI SEYMENBAŞI	ATILLA ULUSU	HASAN TAN