JET-A1

1. IDENTIFICATION

PRODUCT NAME: JET-A1
RECOMMENDED USE: Aviation fuel. Its freezing point (- 47 ºC) guarantees that at the altitudes at which the plane flies, the fuel remains in a liquid state.
MANUFACTURER: ANCAP (La Teja Refinery)
ADRESS: Humboldt 3900, Montevideo, Uruguay
PHONE NUMBERS: Customer service: (+598) 2 1931-2006.
FAX: Commercial Assistance: (+598) 2 1931-3126
WEB: https://www.ancap.com.uy
EMERGENCY TELEPHONES: Fire Department: 911
Center for Information and Toxicological Advice (CIAT): (+598) 21722

2. HAZARD INDENTIFICATIONS

PRODUCT CLASIFICATION:
Flammable liquids - Category 3
Aspiration Hazard – Category 1
SIGNAL WORD: Danger

HAZARDS PICTOGRAMS	HAZARD STATEMENTS
	H304 - May be fatal if swallowed and enters airways.
	H226 - Flammable liquid and vapors.

P210 – Keep away from heat/ sparks/open flames/hot surfaces. No smoking.
P233- Keep the container tightly closed.
P273 – Avoid release to the environment

3. COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	% (Vol.)	CLASIFICATION	H Statements
Aliphatic hydrocarbons	Mixture	75 % (max.)	Flammable liquids. Category 3 Aspiration hazard. Category 1	H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways

Aromatic hydrocarbons	Mixture	25 % (max.)	Flammable liquids. Category 3 Aspiration hazard. Category 1	H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways
Sulphur	7704-34-9	0,3% (max.)	Skin corrosion/irritation. Category 2 Serious eye damage/eye irritation. Category 2/2A	H315 - Causes skin irritation

4. FIRST AID MEASURES

INHALACION: Move the person to fresh air and keep him or her at rest in a position comfortable for breathing. Consult a doctor if the discomfort continues.
SKIN CONTACT: Wash the affected area carefully using soap and water. In the presence or persistence of irritation, seek medical attention.Remove contaminated clothing and shoes. Wash them before using them.
EYES CONTACT: Wash eyes with plenty of water for at least 20 minutes. Remove contact lenses if it is easy to do so. Seek medical attention if irritation develops or persists.
INGESTION: Rinse mouth thoroughly. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical assistance if the discomfort continues. Show this safety data sheet to the doctor.

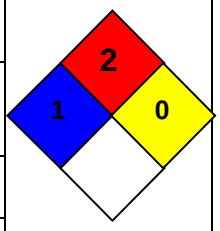
5. FIRE - FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, sand, foam. Water only as fog or to cool exposed containers.
EXTINGUISHING MEDIA NOT APPROPRIATE: Do not use water jet directly. You can spread the fire.
SPECIAL MEASURES TO BE TAKEN BY FIRE FIGHTING EQUIPMENT IN CASE OF FIRE:

- Before attempting to rescue victims, isolate the area from all potential sources of ignition, including disconnecting the power supply.
- Combat fire from a protective place.

NFPA 704: Standard System for the Identification of the hazards of materials for emergency response

HEALTH	1	Materials that, under emergency conditions, can cause significant irritation.
FLAMMABILITY	2	Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
INSTABILITY	0	Materials that in themselves are normally stable, even under fire conditions.
SPECIAL HAZARD		



6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE
SPILL MANAGEMENT: Turn off engines or other sources of ignition. Prevent the spilled product from reaching the water. Absorbed with sand or other non-combustible material and dispose in closed drums.

7. HANDLING AND STORAGE

HANDLING: Avoid flames, DO NOT produce sparks and DO NOT smoke. Avoid it's releasing into the environment. Avoid splashes in your handling. Avoid the accumulation of electrostatic charges, bonding containers when transferring
STORAGE: In bulk, in underground tanks. Keep away from heat sources, sparks, open flames or hot surfaces.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

LIMIT FOR 8 HOURS OF CONTINUOUS EXPOSURE: 200 mg/m3 (ACGIH)
SKIN PROTECTION: Wearing chemical-resistant gloves (nitrile, neoprene, or PVC).
EYE PROTECTION: Use goggles or face shield in operations with risk of splashing.
NORMAL RESPIRATORY PROTECTION: Use semi-mask for organic vapors in poorly ventilated places.

EMERGENCY RESPIRATORY PROTECTION: In emergency cases, use a full- face mask with filter for organic vapors and acid gases in ventilated places and autonomous equipment in closed or poorly ventilated places.
HYGIENIC MEASURES: Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling it. Change contaminated work clothes at the end of the work shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance (physical state, color, etc.): Clear, bright, colorless liquid.
b) Smell: Characteristic.
c) Odor threshold: No data
d) pH: No data
e) Freezing point: - 47°C (max.)
f) Boiling range: No data
g) Flash point: No data
h) Evaporation rate: No data
i) Flammability (solid/gas): No data
j) Upper flammable or explosive limit: No data
Lower flammable or explosive limit: No data
k) Vapor Pressure: No data.
l) Vapor density: 0,775 to 0,880 (water=1)
m) Density: No data
n) Solubility: No data
o) Partition coefficient n-octanol/water: No data
p) Autoignition temperature: More than 220°C
q) Decomposition temperature: No data
r) Kinematic viscosity: 8.000 cSt at -20°C (max.)
s) Other properties:
Electrical conductivity: 50 a 600 pS/m

10. STABILITY AND REACTIVITY

REACTIVITY: Stable material, even exposed to fire, and that does not react with water.
CHEMICAL STABILITY: Stable under normal conditions of use and storage
POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur.
CONDITIONS TO AVOID: High temperatures, sparks and open flames.
INCOMPATIBLE MATERIALS: Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion products: carbon monoxide.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: It can be fatal by ingestion and penetration into the airways. By inhalation of high concentrations it can cause irritation in eyes, respiratory tract and affect the central nervous system (headache, dizziness, mental confusion).
CHRONIC TOXICITY:Prolongued and repeated contact with skin can cause dermatitis.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Toxic to aquatic organisms with lasting harmful effects. Prevent the spill from reaching the sewer or water courses.

13. DISPOSAL CONSIDERATIONS

Avoid or minimize the generation of waste when possible. The disposal of the product, the container and the waste generated in case of accidental spillage must be managed according to applicable local legislation.

14. TRANSPORT INFORMATION

According to the Agreement for the Facilitation of the Transport of Dangerous Goods in MERCOSUR:
MAIN HAZARD: Flammable liquid
RISK NUMBER: 30
UN NUMBER: 1863
PACKING GROUP: III

According to the International Maritime Organization Code (IMDG Code), 1996 Edition:
IMDG CLASS: 3.3
RISK NUMBER: 30
UN NUMBER: 1863

30
1863

15. REGULATORY INFORMATION

16. OTHER INFORMATION

DEVELOPMENT OF THE SAFETY DATA SHEET: According to the guidelines of the GHS (9th Revision, 2021), Decree 307/009: Regulations for the protection of the health and safety of workers against risks related to chemical agents during work.
BIBLIOGRAPHY: The product hazard identification is based on data from ECHA (https://echa.europa.eu/).
ABBREVIATIONS:
A.C.G.I.H: American Conference of Governmental Industrial Hygienists
ANCAP: National Administration of Alcohol and Portland Fuels
ASTM: American Society of Testing Materials
CAS NUMBER: Chemical Abstract Service Number
CIAT: Center for Information and Toxicological Advice
ECHA: European Chemical Agency
MERCOSUR: Southern Common Market
NFPA: National Fire Protection Association
OSHA: Occupational Safety Health Administration
PVC: Polyvinylchloride
SGA: Globally Harmonized System