



Fueling Excellence

JET A-1

SAFETY DATA SHEET

IP&E Guam
Revision Date: January 1, 2014

1. Product Identification

Product Name: Jet A-1

Synonyms: Jet, Aviation Kerosene

Product Code: Jet A-1

Product Type: Aviation fuel

Supplier: IP&E Holdings, LLC. (dba: IP&E Guam)

Address: 643 Chalan San Antonio, Suite 100
Tamuning, Guam 96913-3644

Contact Number: Guam: +1-671-647-0000

Emergency Number: Guam: +1-671-797-0464 (Field Operations Manager)

2. Hazards Identification

Classification of the substance or mixture

Flammable liquids category 3
Acute toxicity (Inhalation) category 4
Skin corrosion/irritation category 2
Eye damage/irritation category 2
Specific target organ systemic toxicity (repeated exposure) category 2 (central nervous system, kidney)

GHS Labels:



GHS precautionary statements:

Signal Word: Danger, Warning

Hazard Statements:	<p>H226: Flammable liquid and vapor. H304: May be fatal if swallowed and enters airways H315: Causes skin irritation. H332: Harmful if inhaled. H332: May cause damage to organs through prolonged or repeated exposure. H319: Causes serious eye irritation.</p>
Precautionary Statements:	
Prevention:	<p>P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233: Keep container tightly closed. P240: Ground/Bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P260: Do not breathe dust/fume/gas/mist/vapors/spray P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated. P280: Wear protective gloves/eye protection/face protection.</p>
Response:	<p>P362: Take off contaminated clothing and wash before reuse. P302+P352: If on skin, wash with plenty of soap and water. P303+P361+P353: If on skin (or hair), remove/take off immediately all contaminated clothing, rinse skin with water/shower. P332+P313: If skin irritation occurs, Get medical advice/attention. P337+P313: If eye irritation occurs, Get medical advice/attention. P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P310: If swallowed, immediately call a poison center of doctor/physician. P331: Do not induce vomiting. P304+P340: If inhaled, remove victim to fresh air and keep at rest position comfortable for breathing. P321: If person is not breathing, provide artificial respiration. If there is labored respiration, certified person should manage oxygen. P370+P378: In case of fire, use dry chemicals, CO2, water spray, firefighting foam for extinction.</p>
Storage:	P403+P235: Store in a well-ventilated place. Keep cool.
Disposal:	P501: Dispose of contents/container in accordance with regulations.
NFPA Classification:	Health = 2; Fire = 3; Reactivity = 0
Human Health Hazards:	May cause lung damage if swallowed; skin irritant; vapors may cause drowsiness and dizziness.
Safety Hazards:	Combustible liquid; electrostatic charges may be generated during handling and may cause fire.
Environmental Hazards:	Harmful to aquatic organisms; may cause long-term adverse effects in the environment; may penetrate soil and affect ground water; not readily biodegradable; has the potential to bio accumulate; persists under anaerobic conditions.

3. Composition/ Information on Ingredients

Name	CAS Number	Concentration %
Kerosene	8008-20-6	0-100%

4. First-Aid Measures

Symptoms and Effects:	Eye contact may cause transient irritation; ingestion may cause digestive tract irritation, diarrhea or vomiting; aspiration may cause chemical pneumonitis, which may be fatal; prolonged exposure to vapor concentrations may cause impairment of judgment, headache, dizziness, nausea, eye irritation, upper respiratory tract irritation; cardiac irregularities; convulsion, asphyxiation, unconsciousness or death.
First Aid – Inhalation:	Move to fresh air. If breathing but unconscious, place in the recovery position. If breathing has stopped, apply artificial respiration. If no heartbeat, provide external cardiac compression. Monitor breathing and pulse. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
First Aid – Skin Contact:	Wash skin with water and soap. If redness, swelling, pain or blisters occur, obtain medical attention.
First Aid – Eye Contact:	Flush eye with water. If redness, burning, blurred vision or swelling persists, obtain medical attention.
First Aid – Ingestion:	Do not induce vomiting. Protect the airway if vomiting begins. Do not give anything by mouth. If breathing but unconscious, place in the recovery position. If breathing has stopped, apply artificial respiration. If no heartbeat, provide external cardiac compression. Monitor breathing and pulse. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Advice to Physicians:	Treat symptomatically. Diagnosis of ingestion is by the characteristic odor on the victim's breath and from the history of events. In cases of ingestion, consider gastric lavage. In cases of chemical pneumonitis, consider antibiotic and corticosteroid therapy. Administration of medicinal liquid paraffin may reduce absorption from the digestive tract.

5. Fire-Fighting Measures

Specific Hazards:	Hazardous combustion elements include may include carbon monoxide, oxides of nitrogen, unburnt hydrocarbons; ignition from vapors possible from large distances.
Extinguishing Media:	Foam, water spray or fog. For small fires, dry chemical powder, carbon dioxide, sand or earth may be used.
Unsuitable Extinguishing Media:	Water and halon extinguishers should be avoided.
Protective Equipment: :	Not Available
Other Information:	Keep adjacent drums and tanks cool by spraying with water.

6. Accidental Release Measures

Personal Precautions:	Vapor may travel along the ground for considerable distances. Remove all possible sources of ignition in the surrounding area and evacuate all personnel. Avoid contact with the skin, eyes and clothing. Immediately remove all contaminated clothing, nothing that the clothing may be a fire hazard.
Personal Protection:	Impervious overalls; nitrile rubber gloves; safety shoes; safety glasses.
Environmental Precautions:	Prevent from entering into drains, ditches or rivers. Use appropriate containment, such as absorbent booms, to avoid environmental contamination.
Clean-Up Methods:	Absorb or contain liquid with sand, earth or spill control material. Allow to evaporate or use a non-sparking shovel and place in a labelled sealable container for subsequent safe disposal. Do not disperse using water.
Other Information:	Observe all applicable local regulations. Notify local authorities as required.

7. Handling and Storage

Handling:	Do not eat, drink or smoke while handling. Use only in well-ventilated areas. Take precautionary measures against static discharges. Earth or bond all equipment.
Storage:	Locate tanks away from heat and other sources of ignition. Drums should be staked no more than 3 high. This product must never be stored in buildings occupied by people. Small volumes may be stored in a suitably designed portable container. Such containers should be stored in well-ventilated areas or flameproof cabinets. Do not store in unsuitable, unlabeled or incorrectly labeled containers. Keep container tightly closed in a dry, well-ventilated place away from direct sunlight and other sources of heat or ignition. Keep in a bunded area. Prevent ingress of water. Keep out of reach of children.
Product Transfer:	Electrostatic charges may be generated during pumping. Ensure electrical continuity by bonding all equipment. Avoid splash filling. Wait 10 minutes after tank filling before opening hatches or manholes.
Recommended Materials:	For containers, use mild steel where it does not present an unnecessary fire hazard. For container linings, use amine-adduct cured epoxy paint. For seals and gaskets, use compressed asbestos fibre, PTFE, Viton A, Viton B.

8. Exposure Controls/ Personal Protection

Engineering Control Measures:	Provide exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
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Respiratory Protection: Not normally required. In a confined space, self-contained breathing apparatus may be required.

Hand Protection: PVC or nitrile rubber gloves.

Eye Protection: Monogoggles.

Body Protection: Wear overalls to minimize contamination of personal clothing. Launder overalls and undergarments regularly. Wear safety shoes.

Occupational Exposure Standards: TWA – 100mg/m³ over 8 hours

9. Physical and Chemical Properties

Property	Unit	Min	Max
Appearance		Clear & Bright	
Color			Report
Density @ 15°C	Kg/m ³	775	840
Flash Point	°C	38	
Sulfur	% m/m		0.3
Copper Corrosion @3hrs @100°C			1
Initial Boiling Point	°C		Report
Distillation - 10% Recovery	°C		205
Distillation - 50% Recovery	°C		Report
Distillation - 90% Recovery	°C		Report
End Point	°C		300
Residue	% v/v		1.5
Loss	% v/v		1,5
Freezing Point	°C		47
Viscosity @ -20°C	mm ² /s		8
Total Acid No.	mgkoh/g		0.015
Lubricity	mm		0.85
Total Aromatics	% v/v		26.5
Conductivity	pS/m	50	600
Existent Gum	mg/100ml		7
JFTOT	°C	260	

10. Stability and Reactivity

Stability and Reactivity: Stable under normal ambient temperature. The vapor is extremely flammable with the vapor able to cause flash fire.

Incompatibility: Product is reactive with strong oxidizers.

Hazardous Polymerization: Not expected to occur.

Conditions to Avoid:

Heat, sparks, open flames and buildup of static electricity. Avoid high temperatures and all sources of ignition. Keep away from strong oxidizing agents.

11. Toxicological Information

Carcinogenicity:

May cause skin tumors.

12. Ecological Information

Ecological Information:

This product is potentially toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water. On release to the environment, the lighter product components will readily evaporate, but the remainder may become dispersed in the water or absorb to soil. Primary components of this product are considered biodegradable in aerobic conditions.

13. Disposal Considerations

Precautions:

See Section 8

Waste Disposal:

Disposal of this product, solutions and any by-products should comply with all applicable federal, state and local environmental regulations.

14. Transport Information

Regulatory Information	UN Number	Emergency Response Guidebook	Proper Shipping Name	Class	Packing Group
DOT Classification	UN1863	Guide 128	Fuel, Aviation, Turbine Engine U1863	3	III
International Maritime Dangerous Goods (IMDG)	UN1863	Guide 128	Fuel, Aviation, Turbine Engine U1863	3	III
International Civil Aviation Org / International Air Transport Assoc (ICAO, IATA)	UN1863	Guide 128	Fuel, Aviation, Turbine Engine U1863	3	III

15. Regulatory Information

This product contains the following chemicals subject to the reporting requirements of SARA 311 and 312. This material is classified as "oil" under the CERCLA Petroleum Exclusion; therefore releases to the environment are not reportable under CERCLA.

Chemical Name	CAS Number	Material Concentration	SARA Section 311/312 TPQ (lbs)
Benzene	71-43-2	<2.0	10
Naphthalene	91-20-3	<1	100

EPA SARA 311 / 312 Title III Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactive Hazard	No

This product may contain chemicals that have been identified as a carcinogen by NTP, IARC or OSHA.

16. Other Information

Not Available