

**Section 1: IDENTIFICATION**

|                                       |   |
|---------------------------------------|---|
| <b>Product Identifier:</b>            | Jet Fuel  |
| <b>Other Means of Identification:</b> | Jet Fuel; Kerosene; Jet A; Jet A-1; Jet A (DLA); JAA; JP-8; F-34; Petroleum Distillate Fuel.  |
| <b>SDS Number:</b>                    | 941   |
| <b>Product Code:</b>                  | F-34 (212132);<br>JAA (212117);<br>Jet A-1 (50) (212111);<br>Jet A-1 (212112);<br>Jet A (DLA) (212113);<br>Jet A (212110);<br>Jet A w/FSII (212116);<br>Jet A w/ SDA (212114);<br>JP-8 (212130).  |
| <b>Product Use:</b>                   | Jet Fuel is a complex blend of hydrocarbons derived from various refinery streams. This product is intended for use as a fuel or for use in an engineered process. Use in other applications may result in higher exposures and require additional controls, such as local exhaust ventilation and personal protective equipment. |
| <b>Restrictions on Use:</b>           | Not available.  |
| <b>Manufacturer/Supplier:</b>         | U.S. OIL & REFINING CO.<br>3001 Marshall Ave.<br>Tacoma, WA 98421   |
| <b>Emergency Phone:</b>               | U.S. OIL & REFINING CO.: (253) 383-1651<br>CHEMTREC: 800-424-9300<br>NATIONAL POISON CENTER: 1-800-222-1222   |
| <b>Date of Preparation of SDS:</b>    | October 14, 2014  |

**Section 2: HAZARD(S) IDENTIFICATION**

**CLASSIFICATION:** Flammable Liquids, Category 3  
Skin Irritation, Category 2  
Germ Cell Mutagenicity, Category 1B  
Carcinogenicity, Category 1A  
Toxic to Reproduction, Category 2  
Specific Target Organ Toxicity (Single Exposure), Category 3 - Narcotic Effects  
Aspiration Hazard, Category 1



## Jet Fuel

### SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

Date of Preparation: October 14, 2014

#### LABEL ELEMENTS

Hazard  
Symbol(s):



Signal Word: Danger

Hazard  
Statements: Flammable liquid and vapor.  
Causes skin irritation.  
May cause genetic defects.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
May cause drowsiness or dizziness.  
May be fatal if swallowed and enters airways.

#### PRECAUTIONARY STATEMENTS

- Prevention:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical, ventilating, and lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing mist, vapors, or spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing and eye protection.
- Response:** If swallowed: Immediately call a poison center or doctor.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a poison center or doctor if you feel unwell.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or regular foam to extinguish.
- Storage:** Store in a well-ventilated place. Keep container tightly closed.  
Keep cool.  
Store locked up.
- Disposal:** Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.



SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

Jet Fuel  
Date of Preparation: October 14, 2014

**Hazards Not Otherwise Classified:** No applicable information was found.

**Ingredients with Unknown Acute Toxicity:** None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

| Hazardous Ingredient(s)   | Common name /<br>Synonyms | CAS No.   | % wt./wt.                |
|---------------------------|---------------------------|-----------|--------------------------|
| Kerosene (petroleum)      | Kerosine                  | 8008-20-6 | 90 - 100                 |
| Naphthalene               | Not available.            | 91-20-3   | 0 - 0.1, 0.1 - 1, 1 - 3* |
| Benzene, 1,2,4-trimethyl- | 1,2,4-Trimethylbenzene    | 95-63-6   | 0 - 0.1, 0.1 - 1, 1 - 2* |
| Benzene, dimethyl-        | Xylene                    | 1330-20-7 | 0 - 0.1, 0.1 - 1, 1 - 2* |
| Cyclohexane               | Not available.            | 110-82-7  | 0 - 0.1, 0.1 - 1*        |
| Benzene, methyl-          | Toluene                   | 108-88-3  | 0 - 0.1, 0.1 - 0.5*      |
| Benzene, ethyl-           | Ethylbenzene              | 100-41-4  | 0 - 0.1, 0.1 - 0.5*      |
| Benzene                   | Not available.            | 71-43-2   | 0 - 0.1, 0.1 - 0.2*      |

\* Multiple concentration ranges are listed due to production variability, and in conformance with Canadian WHMIS requirements.

**Section 4: FIRST-AID MEASURES**

**Inhalation:** If inhaled: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, get medical attention/advice. If breathing or the heart stops, trained personnel should immediately begin artificial respiration (AR) or cardiopulmonary resuscitation (CPR) respectively. Get medical attention immediately.

**Acute and delayed symptoms and effects:** May cause drowsiness or dizziness. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness.

**Skin Contact:** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Acute and delayed symptoms and effects:** Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Eye Contact:** If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, get medical attention/advice.

**Acute and delayed symptoms and effects:** May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.



## Jet Fuel

SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

Date of Preparation: October 14, 2014

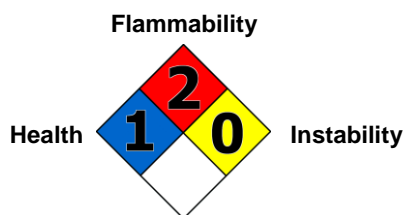
**Ingestion:** If swallowed: Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person. If breathing or the heart stops, trained personnel should immediately begin artificial respiration (AR) or cardiopulmonary resuscitation (CPR) respectively. Get medical attention immediately.

**Acute and delayed symptoms and effects:** May be fatal if swallowed and enters airways. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Note to Physicians:** Symptoms may not appear immediately.

### Section 5: FIRE-FIGHTING MEASURES

NFPA 704



#### SUITABLE/UNSUITABLE EXTINGUISHING MEDIA

**Suitable Extinguishing Media:** Small Fire: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Large Fire: Water spray, fog or regular foam. Move containers from fire area if it can be done safely.

**Unsuitable Extinguishing Media:** Do not use straight streams.

#### SPECIFIC HAZARDS

Flammable liquid and vapor. Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

**Products of Combustion:** Oxides of Carbon. Oxides of Sulfur. Oxides of Nitrogen.



## Jet Fuel

SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

Date of Preparation: October 14, 2014

**Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact.

**Sensitivity to Static Discharge:** Take precautionary measures against static discharge. This material is sensitive to static discharge.

### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

## Section 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**Personal Precautions:** Do not touch or walk through spilled material. Use personal protection recommended in Section 8.

**Protective Equipment:** Emergency eyewash capability should be available. Wear respiratory protection as conditions warrant.

**Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**Methods for Containment:** Stop leak if it can be done without risk. A vapor suppressing foam may be used to reduce vapors. Prevent spreading of material into sewers. Avoid allowing water runoff to contact spilled material.

**Methods for Clean-Up:** Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

## Section 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Do not swallow. Avoid breathing mist, vapors, or spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.



**CONDITIONS FOR SAFE STORAGE:**

Store in a cool, dry, well-ventilated place. Use approved containers that are tightly closed and clearly labeled. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Protect storage containers from physical damage, sunlight, and all sources of ignition. Post area as “No Smoking”.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMITS**

| <b>Component</b>                            | <b>ACGIH</b>  | <b>OSHA</b>  |
|---|---|--|
| Kerosene<br>[CAS No. 8008-20-6]             | 200 mg/m <sup>3</sup> (TWA); Skin; A3;<br>Application restricted to conditions in which there are negligible aerosol exposures (2003) | No PEL established.  |
| Naphthalene<br>[CAS No. 91-20-3]            | 10 ppm (TWA); Skin; A3 (2013)   | 10 ppm (TWA), 50 mg/m <sup>3</sup> (TWA); 15 ppm (STEL) [Vacated]  |
| 1,2,4-Trimethylbenzene<br>[CAS No. 95-63-6] | 25 ppm (TWA); (1970)  | No PEL established.  |
| Xylene<br>[CAS No. 1330-20-7]               | 100 ppm (TWA); 150 ppm (STEL); A4; BEI (1992)   | 100 ppm (TWA), 435 mg/m <sup>3</sup> (TWA); 150 ppm (STEL) [Vacated]   |
| Cyclohexane<br>[CAS No. 110-82-7]           | 100 ppm (TWA); (1964)   | 300 ppm (TWA), 1050 mg/m <sup>3</sup> (TWA)  |
| Toluene<br>[CAS No. 108-88-3]               | 20 ppm (TWA); A4; BEI (2006)  | 200 ppm (TWA); 300 ppm (C); 500 ppm (Peak) (Maximum duration: 10 minutes.) 100 ppm (TWA); 150 ppm (STEL) [Vacated] |
| Ethylbenzene<br>[CAS No. 100-41-4]          | 20 ppm (TWA); A3; BEI (2010)  | 100 ppm (TWA), 435 mg/m <sup>3</sup> (TWA); 125 ppm (STEL) [Vacated]   |
| Benzene<br>[CAS No. 71-43-2]                | 0.5 ppm (TWA); 2.5 ppm (STEL); Skin; A1; BEI (1996)   | 1 ppm (TWA); 5 ppm (STEL)  |

**PEL:** Permissible Exposure Limit  
**TWA:** Time-Weighted Average  
**STEL:** Short-Term Exposure Limit  
**C:** Ceiling

**ENGINEERING CONTROLS**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits. Use explosion-proof electrical, ventilating, and lighting equipment.



**PERSONAL PROTECTIVE EQUIPMENT (PPE)**



- Eye/Face Protection:** Wear safety glasses. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.
- Hand Protection:** Wear protective gloves. Consult manufacturer specifications for further information.
- Skin and Body Protection:** Wear protective clothing. Flame resistant clothing that meets the NFPA 2112 and CAN/CGSB 155.20 standards is recommended in areas where material is stored or handled.
- Respiratory Protection:** If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH approved air-purifying respirator, with organic vapor cartridge, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.
- General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection. Emergency eyewash should be available near operations presenting a potential splash exposure. Avoid skin exposure. Promptly remove contaminated clothing, gloves, and shoes.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance:** Clear, water white to light amber liquid.
- Color:** Water white to light amber.
- Odor:** Faint petroleum odor.
- Odor Threshold:** Not available.
- Physical State:** Liquid.
- pH:** Not available.
- Melting Point / Freezing Point:** -50 to -40 °C (-58 to -40 °F)
- Initial Boiling Point:** 160 °C (320 °F)





## Jet Fuel

Date of Preparation: October 14, 2014

### SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

|   |   |
|---|---|
| <b>Boiling Range:</b>                               | 160 to 300 °C (320 to 572 °F)                 |
| <b>Flash Point:</b>                                 | > 38 °C (100 °F)                              |
| <b>Evaporation Rate:</b>                            | Not available.                                |
| <b>Flammability (solid, gas):</b>                   | Not applicable.                               |
| <b>Lower Flammability Limit:</b>                    | Approximately 0.7 %                           |
| <b>Upper Flammability Limit:</b>                    | Approximately 5.0 %                           |
| <b>Vapor Pressure:</b>                              | 0.32 psi at 38 °C (100 °F)                    |
| <b>Vapor Density:</b>                               | > 1 (Air = 1)                                 |
| <b>Relative Density:</b>                            | 0.775 to 0.840 (Water = 1) at 16 °C (60 °F)   |
| <b>Solubilities:</b>                                | Insoluble in water.                           |
| <b>Partition Coefficient: n-<br/>Octanol/Water:</b> | Not available.                                |
| <b>Auto-ignition Temperature:</b>                   | Not available.                                |
| <b>Decomposition<br/>Temperature:</b>               | Not available.                                |
| <b>Viscosity:</b>                                   | 1.3 to 2.2 cSt at 38 °C (100 °F) (ASTM D-445) |
| <b>Percent Volatile, wt. %:</b>                     | Not available.                                |
| <b>VOC Content, wt. %:</b>                          | Not available.                                |

### Section 10: STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Reactivity:</b>                             | Contact with incompatible materials. Sources of ignition. Exposure to heat. |
| <b>Chemical Stability:</b>                     | Stable under normal storage conditions.                                     |
| <b>Possibility of Hazardous<br/>Reactions:</b> | None known.   |
| <b>Conditions to Avoid:</b>                    | Contact with incompatible materials. Sources of ignition. Exposure to heat. |
| <b>Incompatible Materials:</b>                 | Strong acids. Strong oxidizers.   |
| <b>Hazardous<br/>Decomposition Products:</b>   | None known.   |



**Section 11: TOXICOLOGICAL INFORMATION**

**LIKELY ROUTES OF EXPOSURE:** Eye contact. Skin contact. Inhalation. Ingestion. Skin absorption.

**ACUTE EXPOSURE****PRODUCT TOXICITY**

**Oral:** Not available.

**Dermal:** Not available.

**Inhalation:** Not available.

**COMPONENT TOXICITY**

| Component              | CAS No.   | LD <sub>50</sub> oral | LD <sub>50</sub> dermal | LC <sub>50</sub>                   |
|------------------------|-----------|-----------------------|-------------------------|------------------------------------|
| Kerosene               | 8008-20-6 | > 2835 mg/kg (rabbit) | > 2000 mg/kg (rabbit)   | > 5000 mg/m <sup>3</sup> (rat); 4H |
| Naphthalene            | 91-20-3   | 490 mg/kg (rat)       | > 2500 mg/kg (rat)      | > 340 mg/m <sup>3</sup> (rat); 1H  |
| 1,2,4-Trimethylbenzene | 95-63-6   | 5000 mg/kg (rat)      | Not available.          | 18000 mg/m <sup>3</sup> (rat); 4H  |
| Xylene                 | 1330-20-7 | 4300 mg/kg (rat)      | > 1700 mg/kg (rabbit)   | 5000 ppm (rat); 4H                 |
| Cyclohexane            | 110-82-7  | 813 mg/kg (mouse)     | 180000 mg/kg (rabbit)   | Not available.                     |
| Toluene                | 108-88-3  | 2600 mg/kg (rat)      | 14 mL/kg (rabbit)       | 49000 mg/m <sup>3</sup> (rat); 4H  |
| Ethylbenzene           | 100-41-4  | 3500 mg/kg (rat)      | 17800 µl/kg (rabbit)    | Not available.                     |
| Benzene                | 71-43-2   | 930 mg/kg (rat)       | > 9400 µl/kg (rabbit)   | 10000 ppm (rat); 7H                |

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood. Bone marrow. Liver. Kidneys. Central nervous system (CNS).

**SYMPTOMS (including delayed and immediate effects)**

**Inhalation:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness. Hemolytic anemia (destruction of red blood cells) is the primary health concern for humans exposed to Naphthalene for either short or long periods of time. Other effects may include nausea, profuse perspiration, vomiting, kidney damage and liver damage. Optic neuritis (inflammation of the optic nerve) has been observed. Cataracts have also occurred. Inhalation of Toluene may result in peculiar skin sensations (e. g. pins and needles) or numbness.

**Eye:** May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.



**Jet Fuel**

**SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET**

Date of Preparation: October 14, 2014

**Skin:** Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching. Naphthalene may be absorbed through the skin in harmful amounts.

**Ingestion:** May be fatal if swallowed and enters airways. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Naphthalene may cause liver and kidney damage. May cause blood abnormalities, methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death.

**Skin Sensitization:** Not available.

**Respiratory Sensitization:** Not available.

**Medical Conditions Aggravated By Exposure:** Glucose-6-phosphate dehydrogenase deficiency.

**CHRONIC EFFECTS (from short and long-term exposure)**

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood. Bone marrow. Liver. Kidneys. Central nervous system.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation. Reports of chronic poisoning with Benzene, Toluene, Ethylbenzene or Xylene describe anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Repeated exposure of the eyes to high concentrations of Xylenes vapor may cause reversible eye damage. Chronic inhalation exposure to xylene causes mid-frequency hearing loss in laboratory animals. Xylene reacts synergistically with n-hexane to enhance hearing loss. 1,2,4-Trimethylbenzene may cause CNS changes, asthmatic bronchitis, and changes in the blood such as anemia or thrombocytopenia (i.e. low thrombocyte count that may affect the blood's ability to clot). This material contains Cyclohexane which is known to cause liver and kidney damage.

**Carcinogenicity:** May cause cancer. Straight run Kerosene has shown the potential to cause skin cancer in laboratory animals when applied over the life time of the animal. Chronic exposure to benzene has been associated with an increased incidence of leukemia and multiple myeloma (tumor composed of cells of the type normally found in the bone marrow).

**Component Carcinogenicity**

| Component    | ACGIH | IARC        | NTP         | OSHA             | Prop 65     |
|--------------|-------|-------------|-------------|------------------|-------------|
| Kerosene     | A3    | Not listed. | Not listed. | Not listed.      | Not listed. |
| Naphthalene  | A3    | Group 2B    | List 2      | OSHA Carcinogen. | Listed.     |
| Xylene       | A4    | Group 3     | Not listed. | Not listed.      | Not listed. |
| Toluene      | A4    | Group 3     | Not listed. | Not listed.      | Not listed. |
| Ethylbenzene | A3    | Group 2B    | Not listed. | OSHA Carcinogen. | Listed.     |
| Benzene      | A1    | Group 1     | List 1      | OSHA Carcinogen. | Listed.     |



**Jet Fuel**

**SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET**

Date of Preparation: October 14, 2014

**Mutagenicity:** May cause genetic defects.

**Reproductive Effects:** Suspected of damaging fertility or the unborn child.

**Developmental Effects**  
**Teratogenicity:** Not available.

**Embryotoxicity:** Possible risk of harm to the unborn child. Exposure to Toluene may affect the developing fetus. Benzene and Xylene have caused adverse fetal effects in laboratory animals.

**Toxicologically Synergistic Materials:** Xylene reacts synergistically with n-hexane to enhance hearing loss.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** This product is potentially toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.




**Mobility in Environment:** Not available.

**Other Adverse Effects:** Not available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Instructions:** 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.

**Section 14: TRANSPORT INFORMATION**

| REGULATORY INFORMATION | ID NUMBER | EMERGENCY RESPONSE GUIDEBOOK | PROPER SHIPPING NAME           | CLASS | PACKING GROUP | PLACARD   |
|------------------------|-----------|------------------------------|--------------------------------|-------|---------------|---|
| DOT Classification     | UN1863    | Guide 128                    | FUEL, AVIATION, TURBINE ENGINE | 3     | III           |  |
| TDG Classification     | UN1863    | Guide 128                    | FUEL, AVIATION, TURBINE ENGINE | 3     | III           |  |
| IATA/ICAO              | UN1863    | Guide 128                    | FUEL, AVIATION, TURBINE ENGINE | 3     | III           |  |



**Section 15: REGULATORY INFORMATION**

**CHEMICAL INVENTORIES**

**US (TSCA)**

The components of this product are in compliance with the chemical notification requirements of TSCA.

**Canada (DSL)**

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

**FEDERAL REGULATIONS**

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS Classification:** Class B3 - Combustible Liquids.  
 Class D2A - Carcinogenicity.  
 Class D2A - Embryotoxicity.  
 Class D2A - Mutagenicity.  
 Class D2B - Skin irritant.

**Hazard Symbols:**



**United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**SARA Title III**

| Component              | Section 302 (EHS) TPQ (lbs.) | Section 304 EHS RQ (lbs.) | CERCLA RQ (lbs.) | Section 313 | RCRA CODE   | CAA 112(r) TQ (lbs.) |
|------------------------|------------------------------|---------------------------|------------------|-------------|-------------|----------------------|
| Naphthalene            | Not listed.                  | Not listed.               | 100              | 313         | U165        | Not listed.          |
| 1,2,4-Trimethylbenzene | Not listed.                  | Not listed.               | Not listed.      | 313         | Not listed. | Not listed.          |
| Xylene                 | Not listed.                  | Not listed.               | 100              | 313         | U239        | Not listed.          |
| Cyclohexane            | Not listed.                  | Not listed.               | 1000             | 313         | U056        | Not listed.          |
| Toluene                | Not listed.                  | Not listed.               | 1000             | 313         | U220        | Not listed.          |
| Ethylbenzene           | Not listed.                  | Not listed.               | 1000             | 313         | Not listed. | Not listed.          |
| Benzene                | Not listed.                  | Not listed.               | 10               | 313         | U019        | Not listed.          |

**SARA SECTION 311/312 - EPA HAZARD CATEGORIES**

| <u>ACUTE HEALTH</u> | <u>CHRONIC HEALTH</u> | <u>FIRE</u> | <u>SUDDEN RELEASE OF PRESSURE</u> | <u>REACTIVE</u> |
|---------------------|-----------------------|-------------|-----------------------------------|-----------------|
| X                   | X                     | X           | -                                 | -               |



SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

**Jet Fuel**

Date of Preparation: October 14, 2014

**State Regulations**

**California**

**California Prop 65:** WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Component**

Naphthalene

Toluene

Ethylbenzene

Benzene

**Type of Toxicity**

cancer

developmental

cancer

cancer; developmental, male

**Section 16: OTHER INFORMATION**

**Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.

**Date of Preparation of SDS:** October 14, 2014

**SDS Expiry Date (Canada):** October 13, 2017

**Version:** 1.0

**GHS SDS Prepared by:** Deerfoot Consulting Inc.

**Phone: (403) 720-3700**