



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

|                     |                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b> | <b>Kerosene</b>                                                                                                                                                      |
| <b>Synonym(s)</b>   | Range Oil<br>Fuel Oil No. 1                                                                                                                                          |
| <b>CAS #</b>        | Mixture                                                                                                                                                              |
| <b>Product use</b>  | Fuel                                                                                                                                                                 |
| <b>Manufacturer</b> | Irving Oil Refining G.P.<br>Box 1260<br>Saint John, NB E2L 4H6 CA<br>Phone: (506) 202-2000<br>Refinery: (506) 202-3000<br>Emergency Phone: 1-800-424-9300 (CHEMTREC) |

## 2. Hazards Identification

|                                                        |                                                                                                                                                                                                        |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Emergency overview</b>                              | WARNING<br>COMBUSTIBLE LIQUID AND VAPOR.<br>CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION.<br>CAUSES RESPIRATORY TRACT IRRITATION.<br>PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. |
| <b>Potential short term health effects</b>             |                                                                                                                                                                                                        |
| <b>Routes of exposure</b>                              | Eye, Skin contact, Skin absorption, Inhalation, Ingestion.                                                                                                                                             |
| <b>Eyes</b>                                            | Causes irritation.                                                                                                                                                                                     |
| <b>Skin</b>                                            | Causes irritation. May be absorbed through the skin.                                                                                                                                                   |
| <b>ACGIH - Threshold Limit Values - Skin Notations</b> |                                                                                                                                                                                                        |
| Benzene                                                | 71-43-2      Skin - potential significant contribution to overall exposure by the cutaneous route                                                                                                      |
| Kerosene                                               | 8008-20-6      Skin - potential significant contribution to overall exposure by the cutaneous route                                                                                                    |
| <b>Inhalation</b>                                      | Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).                                                                      |
| <b>Ingestion</b>                                       | Harmful if swallowed. Aspiration of material into lungs can cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.                                                                |
| <b>Target organs</b>                                   | Eyes. Respiratory system. Skin.                                                                                                                                                                        |
| <b>Chronic effects</b>                                 | Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis. Prolonged or repeated exposure can cause kidney damage.                                                        |
| <b>Signs and symptoms</b>                              | Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.                                  |
| <b>OSHA Regulatory Status</b>                          | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.                                                                                         |
| <b>Potential environmental effects</b>                 | Components of this product have been identified as having potential environmental concerns.                                                                                                            |

## 3. Composition / Information on Ingredients

| <b>Ingredient(s)</b>        | <b>CAS #</b>                                                                                                                                                                                                                                                                                                                                                     | <b>Percent</b> |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Kerosene                    | 8008-20-6                                                                                                                                                                                                                                                                                                                                                        | 60 - 100       |
| Benzene                     | 71-43-2                                                                                                                                                                                                                                                                                                                                                          | < 0.1          |
| <b>Composition comments</b> | *Sulphur: <8 ppm<br>*Hydrogen sulphide: Nil<br><br>*Kerosene is a complex mixture of hydrocarbons. Its exact composition depends on the source of the crude oil from which it was produced and the refining methods used. Kerosene contains hundreds of individual organic chemicals. This section identifies only some of the well-known chemical constituents. |                |

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## 4. First Aid Measures

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### First aid procedures

|                     |                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.                                                                            |
| <b>Skin contact</b> | Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.                                                                                                               |
| <b>Inhalation</b>   | If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.                                    |
| <b>Ingestion</b>    | Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. |

### Notes to physician

Symptoms may be delayed.

### General advice

Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammable properties</b>                       | Combustible by WHMIS/OSHA criteria.<br>Vapors may travel to a source of ignition and flash back.<br>Container may explode in heat of fire.                                                                                                  |
| <b>Extinguishing media</b>                        |                                                                                                                                                                                                                                             |
| <b>Suitable extinguishing media</b>               | Carbon dioxide. Dry chemical. Foam.                                                                                                                                                                                                         |
| <b>Unsuitable extinguishing media</b>             | Not available                                                                                                                                                                                                                               |
| <b>Protection of firefighters</b>                 |                                                                                                                                                                                                                                             |
| <b>Specific hazards arising from the chemical</b> | Container may explode in heat of fire.<br>Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.<br>Cool containers with flooding quantities of water until well after fire is out. |
| <b>Protective equipment for firefighters</b>      | Firefighters should wear full protective clothing including self contained breathing apparatus.<br>Cool containers with flooding quantities of water until well after fire is out.                                                          |
| <b>Hazardous combustion products</b>              | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Aromatic hydrocarbons.                                                                                                                                            |
| <b>Explosion data</b>                             |                                                                                                                                                                                                                                             |
| <b>Sensitivity to mechanical impact</b>           | Not expected to be sensitive to mechanical impact.                                                                                                                                                                                          |
| <b>Sensitivity to static discharge</b>            | Vapor: Yes.                                                                                                                                                                                                                                 |

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## 6. Accidental Release Measures

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|                                  |                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>      | Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.                                                                                                                                                                  |
| <b>Environmental precautions</b> | Do not discharge into lakes, streams, ponds or public waters.                                                                                                                                                                                                                                                                                                                                        |
| <b>Methods for containment</b>   | Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.                                                                                                                                     |
| <b>Methods for cleaning up</b>   | Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.<br>Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. |

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## 7. Handling and Storage

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|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b>                                            | Use good industrial hygiene practices in handling this material.<br>Non-sparking equipment. Explosion-proof ventilation. Intrinsically safe electrical equipment.<br>Ground and bond containers when transferring material.<br>Have clean emergency eye wash and shower available in work area.<br>When using do not eat or drink.<br>Avoid contact with skin and clothing.<br>Avoid contact with eyes.<br>Keep container tightly closed.<br>Use only with adequate ventilation.<br>Wash thoroughly after handling.<br>Avoid breathing vapors or mists of this product. |
| <b>Storage</b>                                             | Keep out of reach of children.<br>Containers should be vented and equipped with a flame arrester.<br>Store in a cool, dry, well-ventilated place.<br>Keep away from heat, open flames or other sources of ignition.                                                                                                                                                                                                                                                                                                                                                     |
| Shipping: Stable during transport. May be transported hot. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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## 8. Exposure Controls / Personal Protection

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| Exposure limits                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingredient(s)                         | Exposure Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Benzene                               | <b>ACGIH-TLV</b><br>TWA: 0.5 ppm<br>STEL: 2.5 ppm<br><b>OSHA-PEL</b><br>TWA: 10 ppm<br>STEL: 5 ppm<br>Ceiling: 25 ppm                                                                                                                                                                                                                                                                                                                                                                                            |
| Kerosene                              | <b>ACGIH-TLV</b><br>TWA: 200 mg/m3<br>Skin: 100 mg/m3<br><br><b>OSHA-PEL</b><br>Not established                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Engineering controls</b>           | Mechanical ventilation should be used when handling this product in enclosed spaces.<br>Local exhaust ventilation may be necessary.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Personal protective equipment</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Eye / face protection</b>          | Face shield or chemical goggles. Eye wash fountain is recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Hand protection</b>                | Nitrile rubber. Viton™. Polyethylene.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Skin and body protection</b>       | Use of protective coveralls and long sleeves is recommended.<br>If clothing or footwear becomes contaminated with the product, remove it and completely decontaminate it before re-use, or discard it.                                                                                                                                                                                                                                                                                                           |
| <b>Respiratory protection</b>         | For confined spaces, wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.<br>Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). |
| <b>General hygiene considerations</b> | Handle in accordance with good industrial hygiene and safety practice.<br>Wash hands before breaks and immediately after handling the product.<br>When using do not eat or drink.                                                                                                                                                                                                                                                                                                                                |

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## 9. Physical and Chemical Properties

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|                   |                          |
|-------------------|--------------------------|
| <b>Appearance</b> | Clear                    |
| <b>Color</b>      | Colorless to Pale yellow |
| <b>Form</b>       | Liquid                   |
| <b>Odor</b>       | Petroleum                |

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|                                                       |                                            |
|-------------------------------------------------------|--------------------------------------------|
| <b>Odor threshold</b>                                 | 0.55 mg/m3 for sulphur free product        |
| <b>Physical state</b>                                 | Liquid                                     |
| <b>pH</b>                                             | Not applicable                             |
| <b>Melting point</b>                                  | Not available                              |
| <b>Freezing point</b>                                 | -52.60 - -76.00 °F (-47 - -60 °C)          |
| <b>Boiling point</b>                                  | 314.60 - 572.00 °F (157 - 300 °C)          |
| <b>Pour point</b>                                     | Not available                              |
| <b>Evaporation rate</b>                               | Not available                              |
| <b>Flash point</b>                                    | 100.40 - 161.60 °F (38 - 72 °C) Closed Cup |
| <b>Auto-ignition temperature</b>                      | 410.00 °F (210 °C)                         |
| <b>Flammability limits in air, lower, % by volume</b> | 0.7                                        |
| <b>Flammability limits in air, upper, % by volume</b> | 5                                          |
| <b>Vapor pressure</b>                                 | 10.5 mmHg @ 38°C                           |
| <b>Vapor density</b>                                  | 4.5 (Air=1)                                |
| <b>Specific gravity</b>                               | 0.775 - 0.840 @ 15°C                       |
| <b>Octanol/water coefficient</b>                      | 3.3 To > 6 (log Poct)                      |
| <b>Solubility (H2O)</b>                               | Not available                              |
| <b>VOC (Weight %)</b>                                 | Not available                              |
| <b>Viscosity</b>                                      | 2.0 - 8.0 cST @ -20°C                      |
| <b>Percent volatile</b>                               | Not available                              |

## 10. Stability and Reactivity

|                                           |                                                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | This product may react with strong oxidizing agents.                                                                                    |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.                                                                                                |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                                                                                            |
| <b>Conditions to avoid</b>                | Heat, open flames, static discharge, sparks and other ignition sources.<br>Avoid high temperatures.<br>Do not mix with other chemicals. |
| <b>Incompatible materials</b>             | Acids. Oxidizers.                                                                                                                       |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Aromatic hydrocarbons.                                        |

## 11. Toxicological Information

### Component analysis - LC50

| <b>Ingredient(s)</b> | <b>LC50</b>                      |
|----------------------|----------------------------------|
| Benzene              | 13700 ppm rat; 13700 mg/l/4h rat |
| Kerosene             | 5.2801 mg/l/4h rat               |

### Component analysis - Oral LD50

| <b>Ingredient(s)</b> | <b>LD50</b>                                               |
|----------------------|-----------------------------------------------------------|
| Benzene              | 690 mg/kg rat; 4700 mg/kg mouse                           |
| Kerosene             | 5000 mg/kg rat; 20000 mg/kg guinea pig; 2835 mg/kg rabbit |

### Effects of acute exposure

|             |                                                      |
|-------------|------------------------------------------------------|
| <b>Eye</b>  | Causes irritation.                                   |
| <b>Skin</b> | Causes irritation. May be absorbed through the skin. |

#### ACGIH - Threshold Limit Values - Skin Notations

|          |           |                                                                                      |
|----------|-----------|--------------------------------------------------------------------------------------|
| Benzene  | 71-43-2   | Skin - potential significant contribution to overall exposure by the cutaneous route |
| Kerosene | 8008-20-6 | Skin - potential significant contribution to overall exposure by the cutaneous route |

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** Harmful if swallowed. Aspiration of material into lungs can cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

**Sensitization** Non-hazardous by WHMIS/OSHA criteria.

|                                                                                            |                                                                                                                                                                                        |                                                                           |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Chronic effects</b>                                                                     | Blood and nervous system disorders may occur after prolonged skin contact.<br>Prolonged or repeated exposure can cause kidney damage.                                                  |                                                                           |
| <b>Carcinogenicity</b>                                                                     | Benzene and certain polycyclic aromatic hydrocarbons (PAHs) are known carcinogens.                                                                                                     |                                                                           |
| <b>ACGIH - Threshold Limit Values - Carcinogens</b>                                        |                                                                                                                                                                                        |                                                                           |
| Benzene                                                                                    | 71-43-2                                                                                                                                                                                | A1 - Confirmed Human Carcinogen                                           |
| Kerosene                                                                                   | 8008-20-6                                                                                                                                                                              | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans         |
| <b>IARC - Group 1 (Carcinogenic to Humans)</b>                                             |                                                                                                                                                                                        |                                                                           |
| Benzene                                                                                    | 71-43-2                                                                                                                                                                                | Monograph 100F [in preparation]; Supplement 7 [1987]; Monograph 29 [1982] |
| <b>NTP (National Toxicology Program) - Report on Carcinogens - Known Human Carcinogens</b> |                                                                                                                                                                                        |                                                                           |
| Benzene                                                                                    | 71-43-2                                                                                                                                                                                | Known Human Carcinogen                                                    |
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>                               |                                                                                                                                                                                        |                                                                           |
| Benzene                                                                                    | 71-43-2                                                                                                                                                                                | carcinogen, initial date 2/27/87                                          |
| <b>Mutagenicity</b>                                                                        | Non-hazardous by WHMIS/OSHA criteria.                                                                                                                                                  |                                                                           |
| <b>Reproductive effects</b>                                                                | Non-hazardous by WHMIS/OSHA criteria.                                                                                                                                                  |                                                                           |
| <b>Teratogenicity</b>                                                                      | Non-hazardous by WHMIS/OSHA criteria.                                                                                                                                                  |                                                                           |
| <b>Name of Toxicologically Synergistic Products</b>                                        | Other CNS depressants can be expected to produce additive or synergistic effects. May increase the photosensitizing ability of certain chemicals, such as dinitrochlorobenzene (DNCB). |                                                                           |

## 12. Ecological Information

|                                                      |                                                                                             |                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity                                          | Components of this product have been identified as having potential environmental concerns. |                                                                                                                                                                                                                                                                                                                                                        |
| Ecotoxicity - Freshwater Algae - Acute Toxicity Data |                                                                                             |                                                                                                                                                                                                                                                                                                                                                        |
| Benzene                                              | 71-43-2                                                                                     | 72 Hr EC50 Pseudokirchneriella subcapitata: 29 mg/L                                                                                                                                                                                                                                                                                                    |
| Ecotoxicity - Freshwater Fish - Acute Toxicity Data  |                                                                                             |                                                                                                                                                                                                                                                                                                                                                        |
| Benzene                                              | 71-43-2                                                                                     | 96 Hr LC50 Pimephales promelas: 10.7-14.7 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 5.3 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 22.49 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.6 mg/L [static]; 96 Hr LC50 Pimephales promelas: 22330-41160 µg/L [static]; 96 Hr LC50 Lepomis macrochirus: 70000-142000 µg/L [static] |
| Ecotoxicity - Water Flea - Acute Toxicity Data       |                                                                                             |                                                                                                                                                                                                                                                                                                                                                        |
| Benzene                                              | 71-43-2                                                                                     | 48 Hr EC50 Daphnia magna: 8.76 - 15.6 mg/L [Static]; 48 Hr EC50 Daphnia magna: 10 mg/L                                                                                                                                                                                                                                                                 |
| Persistence / degradability                          | Non-persistent/ Group 1                                                                     |                                                                                                                                                                                                                                                                                                                                                        |
| Bioaccumulation / accumulation                       | Not available                                                                               |                                                                                                                                                                                                                                                                                                                                                        |
| Mobility in environmental media                      | Not available                                                                               |                                                                                                                                                                                                                                                                                                                                                        |
| Environmental effects                                | Not available                                                                               |                                                                                                                                                                                                                                                                                                                                                        |
| Aquatic toxicity                                     | Not available                                                                               |                                                                                                                                                                                                                                                                                                                                                        |
| Partition coefficient                                | 3.3 To > 6 (log Poct)                                                                       |                                                                                                                                                                                                                                                                                                                                                        |
| Chemical fate information                            | Not available                                                                               |                                                                                                                                                                                                                                                                                                                                                        |
| Other adverse effects                                | Not available                                                                               |                                                                                                                                                                                                                                                                                                                                                        |

## 13. Disposal Considerations

|                                              |                                                                                                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Review federal, provincial, and local government requirements prior to disposal. Dispose in accordance with all applicable regulations. |
| <b>Waste from residues / unused products</b> | Not available                                                                                                                           |
| <b>Contaminated packaging</b>                | Not available                                                                                                                           |

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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

#### Basic shipping requirements:

|                         |                       |
|-------------------------|-----------------------|
| Proper shipping name    | Kerosene              |
| Hazard class            | 3                     |
| UN number               | UN1223                |
| Packing group           | III                   |
| Additional information: |                       |
| Special provisions      | 144, B1, IB3, T2, TP2 |
| Packaging exceptions    | 150                   |
| ERG number              | 128                   |



### Transportation of Dangerous Goods (TDG - Canada)

#### Basic shipping requirements:

|                      |          |
|----------------------|----------|
| Proper shipping name | KEROSENE |
| Hazard class         | 3        |
| UN number            | UN1223   |
| Packing group        | III      |



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## 15. Regulatory Information

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### Canadian federal regulations

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.

#### Canada - CEPA - Schedule I - List of Toxic Substances

|         |         |         |
|---------|---------|---------|
| Benzene | 71-43-2 | Present |
|---------|---------|---------|

#### Canada - WHMIS - Ingredient Disclosure List

|         |         |       |
|---------|---------|-------|
| Benzene | 71-43-2 | 0.1 % |
|---------|---------|-------|

### WHMIS status

Controlled

### WHMIS classification

Class B - Division 3 - Combustible Liquid, Class D - Division 2B

### WHMIS labeling



### Occupational Safety and Health Administration (OSHA)

|                                     |     |
|-------------------------------------|-----|
| 29 CFR 1910.1200 hazardous chemical | Yes |
|-------------------------------------|-----|

**US Federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

Benzene 71-43-2 Present (including Benzene from gasoline)

**U.S. - CAA (Clean Air Act) - High Risk Hazardous Air Pollutants**

Benzene 71-43-2 10 Weighting factor

**U.S. - CAA (Clean Air Act) - HON Rule - Organic HAPs**

Benzene 71-43-2 Present

**U.S. - CAA (Clean Air Act) - HON Rule - SOCM Chemicals**

Benzene 71-43-2 Group I

**U.S. - CAA (Clean Air Act) - Reactivity Factors for VOCs in Aerosol Coatings**

Benzene 71-43-2 0.81 G Ozone/g VOC Reactivity Factor

**U.S. - CAA (Clean Air Act) - Urban HAPs List (Integrated Urban Strategy)**

Benzene 71-43-2 Present

**U.S. - CAA (Clean Air Act) - Volatile Organic Compounds (VOCs) in SOCM**

Benzene 71-43-2 Present

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Benzene 71-43-2 10 Lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

Benzene 71-43-2 0.1 % de minimis concentration

**U.S. - CWA (Clean Water Act) - Hazardous Substances**

Benzene 71-43-2 Present

**U.S. - CWA (Clean Water Act) - Priority Pollutants**

Benzene 71-43-2 Present

**U.S. - CWA (Clean Water Act) - Toxic Pollutants**

Benzene 71-43-2 Present

**CERCLA (Superfund) reportable quantity**

Benzene: 10.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Water Act (CWA)** Not available

**State regulations**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Benzene 71-43-2 Present

**U.S. - California - Proposition 65 - Carcinogens List**

Benzene 71-43-2 carcinogen, initial date 2/27/87

**U.S. - California - Proposition 65 - Developmental Toxicity**

Benzene 71-43-2 developmental toxicity, initial date 12/26/97

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

Benzene 71-43-2 male reproductive toxicity, initial date 12/26/97

**U.S. - Connecticut - Carcinogenic Substances**

Benzene 71-43-2 Present

**U.S. - Illinois - Toxic Air Contaminant Carcinogens**

Benzene 71-43-2 ACGIH Carcinogen; IRIS A Carcinogen; NTP Known Carcinogen

**U.S. - Illinois - Toxic Air Contaminants**

Benzene 71-43-2 Present

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Benzene 71-43-2 10 Lb final RQ (received an adjusted RQ of 10 lb based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lb based on potential carcinogenicity in an August 14, 1989 final rule)

**U.S. - Massachusetts - Right To Know List**

Benzene 71-43-2 Carcinogen; Extraordinarily hazardous

Kerosene 8008-20-6 Present

**U.S. - Michigan - Critical Materials List**

Benzene 71-43-2 100 Lb Annual usage threshold

**U.S. - Minnesota - Hazardous Substance List**

Benzene 71-43-2 Carcinogen

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Benzene 71-43-2 sn 0197

Kerosene 8008-20-6 sn 1091

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Benzene 71-43-2 10 Lb RQ (air); 1 lb RQ (land/water)

**U.S. - North Carolina - Control of Toxic Air Pollutants**

Benzene 71-43-2 0.00012 mg/m3 (carcinogens)

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

Benzene 71-43-2 Present

**U.S. - Pennsylvania - RTK (Right to Know) List**

Benzene 71-43-2 Environmental hazard; Special hazardous substance

Kerosene 8008-20-6 Present

**U.S. - Rhode Island - Hazardous Substance List**

Benzene 71-43-2 Toxic (skin); Flammable (skin); Carcinogen (skin)

Kerosene 8008-20-6 Flammable

**Inventory name**

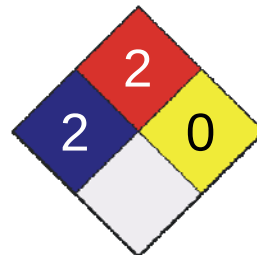
| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|-----------------------------------------------|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)           | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. Other Information**

| LEGEND<br>HMIS/NFPA |   |
|---------------------|---|
| Severe              | 4 |
| Serious             | 3 |
| Moderate            | 2 |
| Slight              | 1 |
| Minimal             | 0 |

|                     |     |
|---------------------|-----|
| Health              | / 2 |
| Flammability        | 2   |
| Physical Hazard     | 0   |
| Personal Protection | X   |



**Disclaimer**

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**Effective date**

15-Nov-2012

**Expiry date**

15-Nov-2015

**Prepared by**

Dell Tech Laboratories Ltd. (519) 858-5021

**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

## Kerosene



Combustible liquid. Eye and skin irritant.

Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

EYE: Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

SKIN: Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

INHALATION: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.

INGESTION: Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

READ MATERIAL SAFETY DATA SHEET BEFORE USING PRODUCT

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Liquide combustible. Irritant pour les yeux et la peau.

Conserver à l'écart de toutes sources d'ignition. Ne pas fumer. Éviter le contact avec les yeux et la peau. Porter des gants en caoutchouc et des lunettes de sécurité pourvues de protections latérales. Tenir hors de la portée des enfants.

YEUX: Rincer à grande eau froide. Enlever les verres de contact, le cas échéant, et continuer à rincer. Obtenir de l'attention médicale si l'irritation persiste.

PEAU: Rincer à grande eau froide. Laver à l'eau et au savon. Obtenir de l'attention médicale si l'irritation persiste.

INHALATION: En cas de symptômes, placer la victime à l'air frais. Si les symptômes persistent, obtenir de l'attention médicale. Si la victime ne respire pas du personnel qualifié devrait immédiatement commencer la réanimation cardio-pulmonaire.

INGESTION: Ne pas provoquer le vomissement. Si le vomissement se produit spontanément, incliner la victime vers l'avant pour réduire le risque d'inhalation. Ne jamais rien faire boire ou avaler à une victime inconsciente, ou si la victime a des convulsions. Appeler un médecin.

LIRE LA FICHE SIGNALÉTIQUE AVANT D'UTILISER CE PRODUIT