

# NATURAL GASOLINE – HIGH HAZARD

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Version: 1.2 Revision Date: 02/06/2017



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### Product Identifier

**Product Form:** Mixture

**Product Name:** Natural Gasoline

**CAS No.** 8006-61-9

### Intended Use of the Product

**Use of the Substance/Mixture:** Industrial Use

### Name, Address, and Telephone of the Responsible Party

#### **Company**

Williams, Inc.  
One Williams Center  
Tulsa, OK 74172, US  
T 800-945-5426  
[ehs@williams.com](mailto:ehs@williams.com)

### Emergency Telephone Number

**Emergency number** Chemtrec - 800-424-9300

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### **Classification (GHS-US)**

Flam. Liq. 1 H224  
Skin Irrit. 2 H315  
Eye Irrit. 2B H320  
Muta. 1B H340  
Carc. 1A H350  
Repr. 2 H361  
STOT SE 3 H336  
STOT RE 2 H373  
Asp. Tox. 1 H304

### Label Elements

#### **GHS-US Labeling**

**Hazard Pictograms (GHS-US)** :



GHS02



GHS07



GHS08



GHS09

**Signal Word (GHS-US)** : Danger

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- Hazard Statements (GHS-US)** : H224 - Extremely flammable liquid and vapor.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H320 - Causes eye irritation.  
H336 - May cause drowsiness or dizziness.  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.
- Precautionary Statements (GHS-US)** : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
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, and lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe vapors, mist, spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective gloves, protective clothing, face protection, respiratory protection.  
P301+P310 - If swallowed: Immediately call a poison center/doctor.  
P302+P352 - If on skin: Wash with plenty of water.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P312 - Call a poison center/doctor if you feel unwell.  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see section 4).  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P370+P378 - In case of fire: Use appropriate media to extinguish.  
P391 - Collect spillage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

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### Other Hazards

#### **Other Hazards Not Contributing to the Classification:**

Hazardous to the aquatic environment- Acute Hazard Category 2.

Hazardous to the aquatic environment- Long-term Hazard Category 2.

H401 - Toxic to aquatic life

H411- Toxic to aquatic life with long lasting effects.

Contains Sulfur, may release small amounts of hydrogen sulfide. Hydrogen sulfide is a highly flammable, explosive gas under certain conditions, is a toxic gas, and may be fatal. Gas can accumulate in the headspace of closed containers, use caution when opening sealed containers. Heating the product or containers can cause thermal decomposition of the product and release hydrogen sulfide. Flammable vapors can accumulate in head space of closed systems. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.



**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

| NAME              | PRODUCT IDENTIFIER | % (W/W) | CLASSIFICATION (GHS-US)                                                                                                                                                                    |
|-------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gasoline, natural | (CAS No) 8006-61-9 | 100     | Flam. Liq. 1, H224<br>Skin Irrit. 2, H315<br>Muta. 1B, H340<br>Carc. 1B, H350<br>Repr. 2, H361<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |

### Components

| NAME       | PRODUCT IDENTIFIER | % (W/W)        | CLASSIFICATION (GHS-US)                                                                                                               |
|------------|--------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Pentane    | (CAS No) 109-66-0  | 15 - 40        | Flam. Liq. 1, H224<br>Eye Irrit. 2B, H320<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |
| Isopentane | (CAS No) 78-78-4   | 15 - 40        | Flam. Liq. 1, H224<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411                        |
| Butane     | (CAS No) 106-97-8  | 0.5 - 1, 1 - 2 | Simple Asphy, H380<br>Flam. Gas 1, H220<br>Liquefied gas, H280                                                                        |

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|                              |                    |         |                                                                                                                                                                                                                                       |
|------------------------------|--------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hexane                       | (CAS No) 110-54-3  | 1 -10   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411                                                             |
| Methylcyclopentane           | (CAS No) 96-37-7   | 0.5 - 5 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                                                                                                          |
| Xylenes (o-, m-, p- isomers) | (CAS No) 1330-20-7 | 0.1 - 1 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |
| Toluene                      | (CAS No) 108-88-3  | 0.1 - 1 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 3, H412                                                             |
| Benzene                      | (CAS No) 71-43-2   | 0.1 - 1 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Muta. 1B, H340<br>Carc. 1A, H350<br>STOT RE 1, H372<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411                                      |
| Isobutane                    | (CAS No) 75-28-5   | 0.1 - 1 | Simple Asphy, H380<br>Flam. Gas 1, H220<br>Liquefied gas, H280                                                                                                                                                                        |

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|                  |                    |           |                                                                                                          |
|------------------|--------------------|-----------|----------------------------------------------------------------------------------------------------------|
| Ethane           | (CAS No) 74-84-0   | < 0.01    | Simple Asphy, H380<br>Flam. Gas 1, H220<br>Liquefied gas, H280                                           |
| Hydrogen sulfide | (CAS No) 7783-06-4 | <= 0.0004 | Flam. Gas 1, H220<br>Liquefied gas, H280<br>Acute Tox. 2 (Inhalation:gas), H330<br>Aquatic Acute 1, H400 |

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. If exposed or concerned: Get medical advice/attention.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion (Swallowing):** Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** May cause cancer. May cause genetic defects. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes skin irritation. Vapors may cause drowsiness and dizziness. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

**Inhalation:** May cause drowsiness or dizziness. Vapors are heavier than air and may cause asphyxia by reduction of the oxygen content.

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes eye irritation.

**Ingestion:** Aspiration into the lungs can cause severe pulmonary edema/hemorrhage. May cause nausea, vomiting, and diarrhea.

**Chronic Symptoms:** May cause cancer. May cause genetic defects.

### Indication of Any Immediate Medical Attention and Special Treatment Needed:

If exposed or concerned, get medical advice and attention. Suspected of damaging fertility. Suspected of damaging the unborn child.

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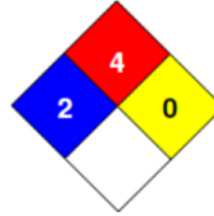
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## SECTION 5: FIREFIGHTING MEASURES

### **NFPA 704 Hazard Class**

Health: 2 Flammability: 4 Instability: 0



0 (Minimal)  
1 (Slight)  
2 (Moderate)  
3 (Serious)  
4 (Severe)

### **Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Highly flammable liquid and vapor

**Explosion Hazard:** May form flammable/explosive vapor-air mixture. Heating may cause an explosion. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire. Stable at ambient temperature and under normal conditions of use.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire

**Firefighting Instructions:** In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons. Contains Sulfur, may release small amounts of hydrogen sulfide. Hydrogen sulfide is a highly flammable, explosive gas under certain conditions, is a toxic gas, and may be fatal. Gas can accumulate in the headspace of closed containers, use caution when opening sealed containers. Heating the product or containers can cause thermal decomposition of the product and release hydrogen sulfide. Upon thermal decomposition releases sulfur dioxide (SO<sub>2</sub>) a toxic and irritating gas.

**Other information:** Do not allow run-off from fire fighting to enter drains or water courses. Do not allow the product to be released into the environment.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Use special care to avoid static electric charges. Eliminate every possible source of ignition. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Avoid breathing (vapors, mist, spray). Use only outdoors or in a well-ventilated area. Avoid all contact with skin, eyes, or clothing. Do not allow product to spread into the environment.

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#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

#### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

#### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Use only non-sparking tools.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Use water spray to disperse vapors. For water based spills contact appropriate authorities and abide by local regulations for hydrocarbon spills into waterways. Use only non-sparking tools. Contact competent authorities after a spill.

#### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

#### **Precautions for Safe Handling**

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable. Do not pressurize, cut, or weld containers. Do not puncture or incinerate container. Contains Sulfur, may release small amounts of hydrogen sulfide. Hydrogen sulfide is a highly flammable, explosive gas under certain conditions, is a toxic gas, and may be fatal. Gas can accumulate in the headspace of closed containers, use caution when opening sealed containers. Heating the product or containers can cause thermal decomposition of the product and release hydrogen sulfide. Combustion will produce sulfur dioxide another toxic and irritating gas.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands, forearms, and other exposed areas thoroughly after handling.

#### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from combustible materials, direct sunlight, extremely high or low temperatures, sources of ignition.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizer, halogenated compounds, alkalis.

**Specific End Use(s):** Industrial use.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

| Chemical Name                           | ACGIH                                                                                               | OSHA                                                                                        | NIOSH                                                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Pentane (109-66-0)                      | TWA: 1000 ppm                                                                                       | PEL (TWA): 1000 ppm<br>PEL (TWA): 2950 mg/m <sup>3</sup>                                    | REL (TWA): 120 ppm<br>REL (TWA):350 mg/m <sup>3</sup> REL (Ceiling): 120 ppm<br>REL (Ceiling):350 mg/m <sup>3</sup><br>IDLH: 1500 ppm (10% LEL) |
| Isopentane (78-78-4)                    | TWA: 1000 ppm                                                                                       | --                                                                                          | --                                                                                                                                              |
| Butane (106-97-8)                       | STEL: 1000 ppm                                                                                      | --                                                                                          | REL (TWA): 800 ppm<br>REL (TWA):1900 mg/m <sup>3</sup>                                                                                          |
| Hexane (110-54-3)                       | TWA: 50 ppm<br>Skin - potential significant contribution to overall exposure by the cutaneous route | PEL (TWA): 500 ppm<br>PEL (TWA): 1800 mg/m <sup>3</sup>                                     | REL (TWA): 50 ppm<br>REL (TWA): 180 mg/m <sup>3</sup><br>IDLH: 1500 ppm (10% LEL)                                                               |
| Xylenes (o-, m-, p-isomers) (1330-20-7) | TWA: 100 ppm<br>STEL: 150 ppm                                                                       | PEL (TWA): 100 ppm<br>PEL (TWA): 435 mg/m <sup>3</sup>                                      | --                                                                                                                                              |
| Toluene (108-88-3)                      | TWA: 20 ppm                                                                                         | PEL (TWA): 200 ppm<br>PEL (Ceiling): 300 ppm                                                | REL (TWA): 375 mg/m <sup>3</sup><br>REL (TWA): 100 ppm<br>REL (STEL): 560 mg/m <sup>3</sup><br>REL (STEL): 150 ppm<br>IDLH: 500 ppm             |
| Benzene (71-43-2)                       | TWA: 0.5 ppm<br>STEL: 2.5 ppm                                                                       | PEL (TWA): 1 ppm<br>PEL (STEL): 5 ppm (1910.1028)<br>PEL (Ceiling): 25 ppm                  | REL (TWA): 0.1 ppm<br>REL (STEL): 1 ppm<br>IDLH: 500 ppm                                                                                        |
| Isobutane (75-28-5)                     | STEL: 1000 ppm                                                                                      | --                                                                                          | REL (TWA): 800 ppm<br>REL (TWA):1900 mg/m <sup>3</sup>                                                                                          |
| Ethane (74-84-0)                        | Minimal oxygen content - asphyxia                                                                   | 1926.55 - Simple asphyxiant                                                                 | --                                                                                                                                              |
| Hydrogen Sulfide (7783-06-4)            | STEL: 5 ppm<br>TWA: 1 ppm                                                                           | 1910.1000 - Ceiling: 20 ppm<br>1926.55 - TWA: 15 mg/m <sup>3</sup><br>1926.55 - TWA: 10 ppm | REL (Ceiling): 10 ppm<br>REL (Ceiling):15 mg/m <sup>3</sup><br>IDLH: 100 ppm                                                                    |

**Note: State province, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.**

#### Exposure Controls

**Appropriate Engineering Controls:** Gas detectors should be used when flammable gases/vapors may be released. Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to avoid static electricity should be followed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use explosion-proof equipment. Ensure all national/local regulations are observed.



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**Personal Protective Equipment:** Protective clothing. Protective goggles. Respiratory protection of the dependent type.. Gloves.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Wear fire/flammable resistant/retardant clothing.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, a face shield may be necessary.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Thermal Hazard Protection:** Wear suitable protective clothing.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

**Note:** Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

|                                          |                                    |
|------------------------------------------|------------------------------------|
| <b>Physical State</b>                    | : Liquid                           |
| <b>Appearance</b>                        | : Colorless                        |
| <b>Odor</b>                              | : Gasoline                         |
| <b>pH</b>                                | : Not applicable                   |
| <b>Relative Evaporation Rate (Air=1)</b> | : Not available                    |
| <b>Melting Point</b>                     | : Not available                    |
| <b>Freezing Point</b>                    | : Not available                    |
| <b>Boiling Point</b>                     | : 84 - 95 °F / 29 – 35 °C          |
| <b>Flash Point</b>                       | : -70 to -50°F / -57 to -46°C      |
| <b>Auto-ignition Temperature</b>         | : 568-853 °F / 280-456 °C          |
| <b>Decomposition Temperature</b>         | : Not available                    |
| <b>Flammability (solid, gas)</b>         | : Extremely flammable liquid       |
| <b>Lower Flammable Limit</b>             | : 1.4-1.5 %                        |
| <b>Upper Flammable Limit</b>             | : 7.4-7.6 %                        |
| <b>Vapor Pressure</b>                    | : 350 - 850 mm Hg @ 100°F / 37.8°C |

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|                                                          |                                                                         |
|----------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Relative Vapor Density at 20 °C</b>                   | : > 1 (air = 1)                                                         |
| <b>Relative Density</b>                                  | : 0.766-0.87                                                            |
| <b>Specific Gravity (water=1)</b>                        | : 0.75 @ 68°F / 20°C                                                    |
| <b>Solubility in Water</b>                               | : Negligible                                                            |
| <b>Explosion Data – Sensitivity to Mechanical Impact</b> | : Not expected to present an explosion hazard due to mechanical impact. |
| <b>Explosion Data – Sensitivity to Static Discharge</b>  | : Static Discharge could act as an ignition source                      |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire. Stable at ambient temperature and under normal conditions of use.

**Chemical Stability:** Extremely flammable liquid and vapor.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers, halogenated compounds, may react violently with alkalis.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>), hydrocarbons, organic materials. Contains Sulfur, may release small amounts of hydrogen sulfide. Hydrogen sulfide is a highly flammable, explosive gas under certain conditions, is a toxic gas, and may be fatal. Gas can accumulate in the headspace of closed containers, use caution when opening sealed containers. Heating the product or containers can cause thermal decomposition of the product and release hydrogen sulfide. Upon thermal decomposition releases sulfur dioxide (SO<sub>2</sub>) a toxic and irritating gas.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes eye irritation.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** May cause genetic defects.

**Teratogenicity:** Not available

**Carcinogenicity:** May cause cancer.

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.

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

**Specific Target Organ Toxicity (Single Exposure):** May cause drowsiness or dizziness.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Symptoms/Injuries after Inhalation:** May cause drowsiness or dizziness. Vapors are heavier than air and may cause asphyxia by reduction of the oxygen content.

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**Symptoms/Injuries after Skin Contact:** Causes skin irritation.

**Symptoms/Injuries after Eye Contact:** Causes eye irritation.

**Symptoms/Injuries after Ingestion:** Aspiration into the lungs can cause severe pulmonary edema/hemorrhage. May cause nausea, vomiting, and diarrhea. **Information on Toxicological Effects - Ingredient(s)**

#### LD50 and LC50 Data

|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| <b>Butane (106-97-8)</b>                        |                                              |
| LC50 Inhalation Rat                             | 30957 mg/m <sup>3</sup> (Exposure time: 4 h) |
| <b>Isobutane (75-28-5)</b>                      |                                              |
| LC50 Inhalation Rat                             | 658 mg/l/4h                                  |
| <b>Pentane (109-66-0)</b>                       |                                              |
| LD50 Dermal Rabbit                              | 3000 mg/kg                                   |
| LC50 Inhalation Rat                             | 364 g/m <sup>3</sup> (Exposure time: 4 h)    |
| <b>Benzene (71-43-2)</b>                        |                                              |
| LD50 Oral Rat                                   | 3306 mg/kg                                   |
| LD50 Dermal Rabbit                              | > 8200 mg/kg                                 |
| LC50 Inhalation Rat                             | 44.66 mg/l/4h                                |
| IARC Group                                      | 1                                            |
| National Toxicity Program (NTP) Status          | 1, 2                                         |
| <b>Hexane (110-54-3)</b>                        |                                              |
| LD50 Dermal Rabbit                              | 3000 mg/kg                                   |
| LC50 Inhalation Rat                             | 48000 ppm/4h                                 |
| <b>Ethane (74-84-0)</b>                         |                                              |
| LC50 Inhalation Rat                             | 658 mg/l/4h                                  |
| <b>Gasoline, natural (8006-61-9)</b>            |                                              |
| LC50 Inhalation Rat                             | 300 g/m <sup>3</sup> (Exposure time: 5 min)  |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b> |                                              |
| LD50 Oral Rat                                   | > 5000 mg/kg                                 |
| LD50 Dermal Rabbit                              | > 1700 mg/kg                                 |
| LC50 Inhalation Rat                             | 6247 ppm/4h (species: Sprague-Dawley)        |
| IARC Group                                      | 3                                            |
| <b>Toluene (108-88-3)</b>                       |                                              |
| LD50 Oral Rat                                   | 5580 mg/kg                                   |
| LD50 Dermal Rabbit                              | 12000 mg/kg                                  |
| IARC Group                                      | 3                                            |

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|                                     |                                |
|-------------------------------------|--------------------------------|
| <b>Hydrogen sulfide (7783-06-4)</b> |                                |
| LC50 Inhalation Rat (mg/l)          | 0.99 mg/l (Exposure time: 1 h) |
| ATE (gases)                         | 100.000 ppmV/4h                |

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Toxic to aquatic life with long lasting effects.

|                                      |                                                              |
|--------------------------------------|--------------------------------------------------------------|
| <b>Gasoline, natural (8006-61-9)</b> |                                                              |
| LC50 Fish 1                          | 56 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| <b>Pentane (109-66-0)</b> |                                                                 |
| LC50 Fish 1               | 9.87 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)  |
| EC50 Daphnia 1            | 9.74 mg/l (Exposure time: 48 h - Species: Daphnia magna)        |
| LC 50 Fish 2              | 11.59 mg/l (Exposure time: 96 h - Species: Pimephales promelas) |

|                             |                                                         |
|-----------------------------|---------------------------------------------------------|
| <b>Isopentane (78-78-4)</b> |                                                         |
| EC50 Daphnia 1              | 2.3 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| <b>Hexane (110-54-3)</b> |                                                                                     |
| LC50 Fish 1              | 2.1 - 2.98 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

|                                                 |                                                                                          |
|-------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b> |                                                                                          |
| LC50 Fish 1                                     | 3.3 mg/l                                                                                 |
| EC50 Daphnia 1                                  | 3.82 mg/l (Exposure time: 48 h - Species: water flea)                                    |
| LC 50 Fish 2                                    | 2.661 (2.661 - 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

|                           |                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------|
| <b>Toluene (108-88-3)</b> |                                                                                        |
| LC50 Fish 1               | 15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1            | 5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])               |
| LC 50 Fish 2              | 12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                |
| EC50 Daphnia 2            | 11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)                               |
| NOEC chronic crustacea    | 0.74 mg/l (Ceriodaphnia dubia)                                                         |

|                                |                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------|
| <b>Benzene (71-43-2)</b>       |                                                                                      |
| LC50 Fish 1                    | 10.7 - 14.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1                 | 8.76 - 15.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])             |
| EC50 Other Aquatic Organisms 1 | 29 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)             |
| LC 50 Fish 2                   | 5.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])         |
| EC50 Daphnia 2                 | 10 mg/l (Exposure time: 48 h - Species: Daphnia magna)                               |

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| <b>Hydrogen sulfide (7783-06-4)</b> |                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------|
| LC50 Fish 1                         | 0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| EC50 Daphnia 1                      | 0.022 mg/l (Exposure time: 96 h - Species: Gammarus pseudolimnaeus)             |
| LC 50 Fish 2                        | 0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])  |

### **Persistence and Degradability**

| <b>Natural Gasoline</b>       |                                                         |
|-------------------------------|---------------------------------------------------------|
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

### **Bioaccumulative Potential**

| <b>Natural Gasoline</b>   |                  |
|---------------------------|------------------|
| Bioaccumulative Potential | Not established. |

| <b>Pentane (109-66-0)</b> |      |
|---------------------------|------|
| Log Pow                   | 3.39 |

| <b>Isopentane (78-78-4)</b> |           |
|-----------------------------|-----------|
| Log Pow                     | 3.2 - 3.3 |

| <b>Butane (106-97-8)</b> |      |
|--------------------------|------|
| Log Pow                  | 2.89 |

| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b> |                |
|-------------------------------------------------|----------------|
| BCF Fish 1                                      | 0.6 (0.6 - 15) |
| Log Pow                                         | 2.77 - 3.15    |

| <b>Toluene (108-88-3)</b> |      |
|---------------------------|------|
| Log Pow                   | 2.65 |

| <b>Benzene (71-43-2)</b> |           |
|--------------------------|-----------|
| BCF Fish 1               | 3.5 - 4.4 |
| Log Pow                  | 1.83      |

| <b>Isobutane (75-28-5)</b> |                 |
|----------------------------|-----------------|
| BCF Fish 1                 | 1.57 - 1.97     |
| Log Pow                    | 2.88 (at 20 °C) |

| <b>Ethane (74-84-0)</b> |        |
|-------------------------|--------|
| Log Pow                 | <= 2.8 |

| <b>Hydrogen sulfide (7783-06-4)</b> |                      |
|-------------------------------------|----------------------|
| BCF fish 1                          | (no bioaccumulation) |
| Log Pow                             | 0.45 (at 25 °C)      |

| <b>Gasoline, natural (8006-61-9)</b> |           |
|--------------------------------------|-----------|
| Log Pow                              | 2.1 - 6.0 |

### **Mobility in Soil**

| <b>Natural Gasoline</b> |                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecology - Soil          | Hydrocarbon film may develop and spread on the surface of water. Some low weight components will become volatile, while others will adsorb to sediment particles. Both of these scenarios represent hazards to the aquatic ecosystem. |

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### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

### **EPA Waste Number(s)**

- D001 - Ignitability characteristic
- D018 - Toxicity characteristic (Benzene)

## SECTION 14: TRANSPORT INFORMATION

### UN Number

**UN-No.(DOT):** 1268

**DOT NA no.:** UN1268

### UN Proper Shipping Name

**DOT Proper Shipping Name** : UN1268, Petroleum products, n.o.s., 3  
**Department of Transportation (DOT) Hazard Classes** : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
**Hazard Labels (DOT)** : 3 - Flammable liquids



**Packing Group (DOT)** : I - Great Danger  
**DOT Special Provisions (49 CFR 172.102)** : 144 - If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.  
T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / (1 + a (tr - tf))$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.  
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F)..

**DOT Packaging Exceptions (49 CFR 173.xxx)** : 150  
**DOT Packaging Non Bulk (49 CFR 173.xxx)** : 201  
**DOT Packaging Bulk (49 CFR 173.xxx)** : 243

### Additional Information

**Emergency Response Guide (ERG) Number** : 128

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### Transport by sea

**DOT Vessel Stowage Location** : E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded..

### Air transport

**DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27)** : 1 L  
**DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75)** : 30 L

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

|                                                                                                                       |                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Natural Gasoline</b>                                                                                               |                                                                                        |
| <b>SARA Section 311/312 Hazard Classes</b>                                                                            | Fire hazard<br>Immediate (acute) health hazard<br>Delayed (chronic) health hazard      |
| <b>Butane (106-97-8)</b>                                                                                              |                                                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                             |                                                                                        |
| <b>Isobutane (75-28-5)</b>                                                                                            |                                                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                             |                                                                                        |
| <b>Pentane (109-66-0)</b>                                                                                             |                                                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                             |                                                                                        |
| <b>EPA TSCA Regulatory Flag</b>                                                                                       | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| <b>Isopentane (78-78-4)</b>                                                                                           |                                                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                             |                                                                                        |
| <b>Benzene (71-43-2)</b>                                                                                              |                                                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on United States SARA Section 313 |                                                                                        |
| <b>RQ (Reportable Quantity, Section 304 of EPA's List of Lists):</b>                                                  | 10 lb                                                                                  |
| <b>SARA Section 313 - Emission Reporting</b>                                                                          | 0.1 %                                                                                  |
| <b>Hexane (110-54-3)</b>                                                                                              |                                                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on United States SARA Section 313 |                                                                                        |
| <b>SARA Section 313 - Emission Reporting</b>                                                                          | 1.0 %                                                                                  |



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|                                                                                                                                                                                                             |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Ethane (74-84-0)</b>                                                                                                                                                                                     |                                                                                   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                                                                                   |                                                                                   |
| <b>Methylcyclopentane (96-37-7)</b>                                                                                                                                                                         |                                                                                   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                                                                                   |                                                                                   |
| <b>Gasoline, natural (8006-61-9)</b>                                                                                                                                                                        |                                                                                   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                                                                                   |                                                                                   |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>                                                                                                                                                             |                                                                                   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on United States SARA Section 313                                                                                       |                                                                                   |
| <b>RQ (Reportable Quantity, Section 304 of EPA's List of Lists):</b>                                                                                                                                        | 100 lb                                                                            |
| <b>SARA Section 311/312 Hazard Classes</b>                                                                                                                                                                  | Delayed (chronic) health hazard<br>Fire hazard<br>Immediate (acute) health hazard |
| <b>SARA Section 313 - Emission Reporting</b>                                                                                                                                                                | 1.0 %                                                                             |
| <b>Toluene (108-88-3)</b>                                                                                                                                                                                   |                                                                                   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on United States SARA Section 313                                                                                       |                                                                                   |
| <b>RQ (Reportable Quantity, Section 304 of EPA's List of Lists):</b>                                                                                                                                        | 1000 lb                                                                           |
| <b>SARA Section 313 - Emission Reporting</b>                                                                                                                                                                | 1.0 %                                                                             |
| <b>Hydrogen sulfide (7783-06-4)</b>                                                                                                                                                                         |                                                                                   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on SARA Section 302 (Specific toxic chemical listings)<br>Listed on SARA Section 313 (Specific toxic chemical listings) |                                                                                   |
| <b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>                                                                                                                                                   | 500                                                                               |
| <b>SARA Section 313 - Emission Reporting</b>                                                                                                                                                                | 1.0 %                                                                             |

### Canadian Regulations

|                                                                                     |                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Natural Gasoline</b>                                                             |                                                                                                                                                                                                              |
| WHMIS Classification                                                                | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|  |                                                                                                                           |



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|                                                                                                                  |                                                                |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Butane (106-97-8)</b>                                                                                         |                                                                |
| Listed on the Canadian DSL (Domestic Substances List)<br>Listed on the Canadian IDL (Ingredient Disclosure List) |                                                                |
| IDL Concentration 1 %                                                                                            |                                                                |
| WHMIS Classification                                                                                             | Class A - Compressed Gas<br>Class B Division 1 - Flammable Gas |

|                                                       |                                                                |
|-------------------------------------------------------|----------------------------------------------------------------|
| <b>Isobutane (75-28-5)</b>                            |                                                                |
| Listed on the Canadian DSL (Domestic Substances List) |                                                                |
| WHMIS Classification                                  | Class A - Compressed Gas<br>Class B Division 1 - Flammable Gas |

|                                                                                                                  |                                       |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>Pentane (109-66-0)</b>                                                                                        |                                       |
| Listed on the Canadian DSL (Domestic Substances List)<br>Listed on the Canadian IDL (Ingredient Disclosure List) |                                       |
| IDL Concentration 1 %                                                                                            |                                       |
| WHMIS Classification                                                                                             | Class B Division 2 - Flammable Liquid |

|                                                       |                                       |
|-------------------------------------------------------|---------------------------------------|
| <b>Isopentane (78-78-4)</b>                           |                                       |
| Listed on the Canadian DSL (Domestic Substances List) |                                       |
| WHMIS Classification                                  | Class B Division 2 - Flammable Liquid |

|                                                                                                                  |                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Benzene (71-43-2)</b>                                                                                         |                                                                                                                                                                                                              |
| Listed on the Canadian DSL (Domestic Substances List)<br>Listed on the Canadian IDL (Ingredient Disclosure List) |                                                                                                                                                                                                              |
| IDL Concentration 0.1 %                                                                                          |                                                                                                                                                                                                              |
| WHMIS Classification                                                                                             | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

|                                                                                                                  |                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hexane (110-54-3)</b>                                                                                         |                                                                                                                                                                                                              |
| Listed on the Canadian DSL (Domestic Substances List)<br>Listed on the Canadian IDL (Ingredient Disclosure List) |                                                                                                                                                                                                              |
| IDL Concentration 1 %                                                                                            |                                                                                                                                                                                                              |
| WHMIS Classification                                                                                             | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

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|                                                       |                                                                |
|-------------------------------------------------------|----------------------------------------------------------------|
| <b>Ethane (74-84-0)</b>                               |                                                                |
| Listed on the Canadian DSL (Domestic Substances List) |                                                                |
| WHMIS Classification                                  | Class A - Compressed Gas<br>Class B Division 1 - Flammable Gas |

|                                                       |                                                                                                                        |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Methylcyclopentane (96-37-7)</b>                   |                                                                                                                        |
| Listed on the Canadian DSL (Domestic Substances List) |                                                                                                                        |
| WHMIS Classification                                  | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

|                                                                                                                  |                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gasoline, natural (8006-61-9)</b>                                                                             |                                                                                                                                                                                                              |
| Listed on the Canadian DSL (Domestic Substances List)<br>Listed on the Canadian IDL (Ingredient Disclosure List) |                                                                                                                                                                                                              |
| IDL Concentration 1 %                                                                                            |                                                                                                                                                                                                              |
| WHMIS Classification                                                                                             | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

|                                                       |                                                                                                                                                                                                              |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>       |                                                                                                                                                                                                              |
| Listed on the Canadian DSL (Domestic Substances List) |                                                                                                                                                                                                              |
| WHMIS Classification                                  | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

|                                                                                                                  |                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toluene (108-88-3)</b>                                                                                        |                                                                                                                                                                                                                                                                                                               |
| Listed on the Canadian DSL (Domestic Substances List)<br>Listed on the Canadian IDL (Ingredient Disclosure List) |                                                                                                                                                                                                                                                                                                               |
| IDL Concentration 1 %                                                                                            |                                                                                                                                                                                                                                                                                                               |
| WHMIS Classification                                                                                             | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects<br>Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects |

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

## SECTION 16: OTHER INFORMATION

|                          |                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revision date</b>     | : 02/06/2017                                                                                                                         |
| <b>Other Information</b> | : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 |

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### GHS Full Text Phrases:

|                                  |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| Acute Tox. 4 (Dermal)            | Acute toxicity (dermal) Category 4                               |
| Acute Tox. 4 (Inhalation: vapor) | Acute toxicity (inhalation: vapor) Category 4                    |
| Aquatic Acute 2                  | Hazardous to the aquatic environment - Acute Hazard Category 2   |
| Aquatic Chronic 2                | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3                | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Asp. Tox. 1                      | Aspiration hazard Category 1                                     |
| Carc. 1A                         | Carcinogenicity Category 1A                                      |
| Carc. 1B                         | Carcinogenicity Category 1B                                      |
| Eye Irrit. 2A                    | Serious eye damage/eye irritation Category 2A                    |
| Eye Irrit. 2B                    | Serious eye damage/eye irritation Category 2B                    |
| Flam. Gas 1                      | Flammable gases Category 1                                       |
| Flam. Liq. 1                     | Flammable liquids Category 1                                     |
| Flam. Liq. 2                     | Flammable liquids Category 2                                     |
| Flam. Liq. 3                     | Flammable liquids Category 3                                     |
| Flam. Liq. 3                     | Flammable liquids Category 3                                     |
| Liquefied gas                    | Gases under pressure Liquefied gas                               |
| Muta. 1B                         | Germ cell mutagenicity Category 1B                               |
| Repr. 2                          | Reproductive toxicity Category 2                                 |
| Simple Asphy                     | Simple Asphyxiant                                                |
| Skin Irrit. 2                    | Skin corrosion/irritation Category 2                             |
| STOT RE 1                        | Specific target organ toxicity (repeated exposure) Category 1    |
| STOT RE 2                        | Specific target organ toxicity (repeated exposure) Category 2    |
| STOT SE 3                        | Specific target organ toxicity (single exposure) Category 3      |
| STOT SE 3                        | Specific target organ toxicity (single exposure) Category 3      |
| H220                             | Extremely flammable gas                                          |
| H224                             | Extremely flammable liquid and vapor                             |
| H225                             | Highly flammable liquid and vapor                                |
| H226                             | Flammable liquid and vapor                                       |
| H280                             | Contains gas under pressure; may explode if heated               |
| H304                             | May be fatal if swallowed and enters airways                     |
| H312                             | Harmful in contact with skin                                     |
| H315                             | Causes skin irritation                                           |
| H319                             | Causes serious eye irritation                                    |
| H320                             | Causes eye irritation                                            |
| H332                             | Harmful if inhaled                                               |
| H335                             | May cause respiratory irritation                                 |
| H336                             | May cause drowsiness or dizziness                                |
| H340                             | May cause genetic defects                                        |
| H350                             | May cause cancer                                                 |
| H361                             | Suspected of damaging fertility or the unborn child              |
| H372                             | Causes damage to organs through prolonged or repeated exposure   |

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|      |                                                                   |
|------|-------------------------------------------------------------------|
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H401 | Toxic to aquatic life                                             |
| H411 | Toxic to aquatic life with long lasting effects                   |
| H412 | Harmful to aquatic life with long lasting effects                 |

### Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

### Disclaimer of Expressed and implied Warranties:

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### Party Responsible for the Preparation of This Document

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