

# SAFETY DATA SHEET

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 01/01/2015 • Date of issue: 01/01/2015 • Version: 1.0

#### **SECTION 1: IDENTIFICATION**

**Product Identifier** 

Product Name: MAC-200<sup>1M</sup> **Product Code: F02411** 

Intended Use of the Product

Asphalt-based, aluminum roof paint. For professional use only. Name, Address, and Telephone of the Responsible Party

Manufacturer

Bitec. Inc.

#2 Industrial Park Drive Morrilton, AR 72110 T-800-535-8597 F-501-354-3019 www.bi-tec.com

**Emergency Telephone Number** Emergency : 1-800-535-8597

number

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the Substance or Mixture

#### Classification (GHS-US)

Flam. Liq. 3 H226 Eve Irrit. 2A H319 Muta. 1B H340 Carc. 1A H350 STOT RE 1 H372 Asp. Tox. 1 H304 Aquatic Acute 1 H400 Aquatic Chronic 2 H411

**Label Elements** GHS-US Labeling

**Hazard Pictograms (GHS-US)** 









Signal Word (GHS-US) : Danger

**Hazard Statements (GHS-US)** H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H319 - Causes serious eye irritation H340 - May cause genetic defects

H350 - May cause cancer

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

**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/lighting/ equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe mist/vapors/spray

P264 - Wash hands, forearms, and exposed areas thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

05/07/2015 EN (English US) 1/14 P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

P314 - Get medical advice and attention if you feel unwell

P331 - If swallowed, do NOT induce vomiting

P337+P313 - If eye irritation persists: Get medical advice/attention

P370+P378 - In case of fire: Use appropriate media to extinguish

P391 - Collect spillage

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

#### Other Hazards

Other Hazards Not Contributing to the Classification: Contains a small amount of hydrogen sulfide. Hydrogen sulfide is a fatal, and highly flammable gas with a rotten egg odor that quickly causes odor fatigue. Heating of this product and storage under elevated temperatures or over long periods of time may release higher amounts of hydrogen sulfide. Hydrogen sulfide is also an asphyxiant.

#### **Unknown Acute Toxicity (GHS-US)**

Not available

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

| Name                                  | Product identifier  | % (w/w) | Classification (GHS-US)                |
|---------------------------------------|---------------------|---------|--|
| Stoddard solvent                      | (CAS No) 8052-41-3  | 15 - 40 | Flam. Liq. 3, H226                     |
|                                       |                     |         | Muta. 1B, H340                         |
|                                       |                     |         | Carc. 1B, H350                         |
|                                       |                     |         | Asp. Tox. 1, H304                      |
|                                       |                     |         | Aquatic Acute 1, H400                  |
|                                       |                     |         | Aquatic Chronic 2, H411                |
| Asphalt                               | (CAS No) 8052-42-4  | 10 - 30 | Flam. Liq. 2, H225                     |
|                                       |                     |         | Eye Irrit. 2A, H319                    |
|                                       |                     |         | Carc. 2, H351                          |
| Aluminum                              | (CAS No) 7429-90-5  | 10 - 30 | Flam. Sol. 1, H228                     |
|                                       |                     |         | Water-react. 2, H261                   |
| Naphtha, petroleum, hydrodesulfurized | (CAS No) 64742-82-1 | 5 - 10  | Muta. 1B, H340                         |
| heavy                                 |                     |         | Carc. 1B, H350                         |
|                                       |                     |         | Asp. Tox. 1, H304                      |
| Quartz                                | (CAS No) 14808-60-7 | 1 - 3   | Carc. 1A, H350                         |
|                                       |                     |         | STOT SE 3, H335                        |
|                                       |                     |         | STOT RE 1, H372                        |
| Hydrogen sulfide                      | (CAS No) 7783-06-4  | 1 - 3   | Flam. Gas 1, H220                      |
|                                       |                     |         | Liquefied gas, H280                    |
|                                       |                     |         | Acute Tox. 2 (Inhalation:gas), H330    |
|                                       |                     |         | Eye Irrit. 2A, H319                    |
|                                       |                     |         | STOT SE 1, H370                        |
|                                       |                     |         | Aquatic Acute 1, H400                  |
|                                       |                     |         | Aquatic Chronic 1, H410                |
| Benzene, 1,2,4-trimethyl-             | (CAS No) 95-63-6    | 1 - 3   | Flam. Liq. 3, H226                     |
|                                       |                     |         | Acute Tox. 4 (Inhalation:vapour), H332 |
|                                       |                     |         | Skin Irrit. 2, H315                    |
|                                       |                     |         | Eye Irrit. 2A, H319                    |
|                                       |                     |         | Carc. 2, H351                          |

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|                        |                   |         | STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411  |
|------------------------|-------------------|---------|--|
| 1,3,5-Trimethylbenzene | (CAS No) 108-67-8 | 1 - 3   | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| Isopropyl alcohol      | (CAS No) 67-63-0  | 0.1 - 1 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336   |

#### **SECTION 4: FIRST AID MEASURES**

#### **Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Seek medical attention.

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

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

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

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

**General:** Causes eye irritation. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

**Inhalation:** May cause irritation to the respiratory tract.

Skin Contact: May cause skin irritation.

Eye Contact: Causes eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects. Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

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

If medical advice is needed, have product container or label at hand.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

**Suitable Extinguishing Media:** dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use extinguishing media containing water. Water or foam may cause frothing. Use of water on product above 100 °C (212 °F) can cause product to expand with explosive force.

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

**Fire Hazard:** This product is flammable. **Explosion Hazard:** Product is not explosive. **Reactivity:** Flammable liquid and vapor.

Advice for Firefighters

Precautionary Measures Fire: Not available

Firefighting Instructions: Exercise caution when fighting any chemical fire.

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

**Hazardous Combustion Products**: Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur and/or nitrogen. Hydrogen sulfide and other sulfur-containing gases can evolve from this product particularily at elevated temperatures. Hot asphalt can release toxic Hydrogen Sulfide gas! Hydrogen Sulfide can accumulate in vapor space of tanks and vessels during transfer and storage of this material.

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#### 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: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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.

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

For Containment: Let the product solidify. Absorb and/or contain spill with inert material, then place in suitable container.

Do not take up in combustible material such as: saw dust or cellulosic material. **Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

#### **SECTION 7: HANDLING AND STORAGE**

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

**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.

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

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container tightly closed.

Storage Area: Store locked up. Store in a well-ventilated place.

Specific End Use(s) Aluminum Roof Paint

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

| Common aramotoro       |                             |                              |
|------------------------|-----------------------------|------------------------------|
| Asphalt (8052-42-4)    |                             |                              |
| Mexico                 | OEL TWA (mg/m³)             | 5 mg/m³                      |
| Mexico                 | OEL STEL (mg/m³)            | 10 mg/m³                     |
| USA ACGIH              | ACGIH TWA (mg/m³)           | 0.5 mg/m³                    |
| USA NIOSH              | NIOSH REL (ceiling) (mg/m³) | 5 mg/m³                      |
| Alberta                | OEL TWA (mg/m³)             | 5 mg/m³ (Petroleum; Bitumen) |
| British Columbia       | OEL TWA (mg/m³)             | 0.5 mg/m³                    |
| Manitoba               | OEL TWA (mg/m³)             | 0.5 mg/m <sup>3</sup>        |
| New Brunswick          | OEL TWA (mg/m³)             | 5 mg/m³ (petroleum fumes)    |
| Newfoundland &         | OEL TWA (mg/m³)             | 0.5 mg/m³                    |
| Labrador               |                             |                              |
| Nova Scotia            | OEL TWA (mg/m³)             | 0.5 mg/m³                    |
| Nunavut                | OEL STEL (mg/m³)            | 10 mg/m³ (Petroleum fumes)   |
| Nunavut                | OEL TWA (mg/m³)             | 5 mg/m³ (Petroleum fumes)    |
| Northwest Territories  | OEL STEL (mg/m³)            | 10 mg/m³ (Petroleum fumes)   |
| Northwest Territories  | OEL TWA (mg/m³)             | 5 mg/m³ (Petroleum fumes)    |
| Ontario                | OEL TWA (mg/m³)             | 0.5 mg/m³                    |
| Prince Edward Island   | OEL TWA (mg/m³)             | 0.5 mg/m³                    |
| Québec                 | VEMP (mg/m³)                | 5 mg/m³                      |
| Saskatchewan           | OEL STEL (mg/m³)            | 1.5 mg/m³ (fumes)            |
| Saskatchewan           | OEL TWA (mg/m³)             | 0.5 mg/m³                    |
| Yukon                  | OEL STEL (mg/m³)            | 10 mg/m³                     |
| Yukon                  | OEL TWA (mg/m³)             | 5 mg/m³                      |
| Stoddard solvent (8052 | 2-41-3)                     |                              |

| Stoddard solvent (8052-41-3) |                 |           |  |
|------------------------------|-----------------|-----------|--|
| Mexico                       | OEL TWA (mg/m³) | 523 mg/m³ |  |
| Mexico                       | OEL TWA (ppm)   | 100 ppm   |  |
|                              |                 |           |  |

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| Mexico                    | OEL STEL (mg/m³)            | 1050 mg/m³                                |
|---------------------------|-----------------------------|---|
| Mexico                    | OEL STEL (ppm)              | 200 ppm                                   |
| USA ACGIH                 | ACGIH TWA (ppm)             | 100 ppm                                   |
| USA OSHA                  | OSHA PEL (TWA) (mg/m³)      | 2900 mg/m³                                |
| USA OSHA                  | OSHA PEL (TWA) (ppm)        | 500 ppm                                   |
| USA NIOSH                 | NIOSH REL (TWA) (mg/m³)     | 350 mg/m³                                 |
| USA NIOSH                 | NIOSH REL (ceiling) (mg/m³) | 1800 mg/m³                                |
| USA IDLH                  | US IDLH (mg/m³)             | 20000 mg/m³                               |
| Alberta                   | OEL TWA (mg/m³)             | 572 mg/m³                                 |
| Alberta                   | OEL TWA (ppm)               | 100 ppm                                   |
| British Columbia          | OEL STEL (mg/m³)            | 580 mg/m³                                 |
| British Columbia          | OEL TWA (mg/m³)             | 290 mg/m³                                 |
| Manitoba                  | OEL TWA (ppm)               | 100 ppm                                   |
| New Brunswick             | OEL TWA (mg/m³)             | 525 mg/m³                                 |
| New Brunswick             | OEL TWA (ppm)               | 100 ppm                                   |
| Newfoundland &            | OEL TWA (ppm)               | 100 ppm                                   |
| Labrador                  | ,,,,                        |   |
| Nova Scotia               | OEL TWA (ppm)               | 100 ppm                                   |
| Nunavut                   | OEL STEL (mg/m³)            | 720 mg/m³                                 |
| Nunavut                   | OEL STEL (ppm)              | 125 ppm                                   |
| Nunavut                   | OEL TWA (mg/m³)             | 575 mg/m³                                 |
| Nunavut                   | OEL TWA (ppm)               | 100 ppm                                   |
| Northwest Territories     | OEL STEL (mg/m³)            | 720 mg/m³                                 |
| Northwest Territories     | OEL STEL (ppm)              | 125 ppm                                   |
| Northwest Territories     | OEL TWA (mg/m³)             | 575 mg/m³                                 |
| Northwest Territories     | OEL TWA (ppm)               | 100 ppm                                   |
| Ontario                   | OEL TWA (mg/m³)             | 525 mg/m³ (140°C Flash aliphatic solvent) |
| Prince Edward Island      | OEL TWA (ppm)               | 100 ppm                                   |
| Québec                    | VEMP (mg/m³)                | 525 mg/m³                                 |
| Québec                    | VEMP (ppm)                  | 100 ppm                                   |
| Saskatchewan              | OEL STEL (ppm)              | 125 ppm                                   |
| Saskatchewan              | OEL TWA (ppm)               | 100 ppm                                   |
| Yukon                     | OEL STEL (mg/m³)            | 720 mg/m³                                 |
| Yukon                     | OEL STEL (ppm)              | 150 ppm                                   |
| Yukon                     | OEL TWA (mg/m³)             | 575 mg/m³                                 |
| Yukon                     | OEL TWA (ppm)               | 100 ppm                                   |
| Benzene, 1,2,4-trimethyl- | - (95-63-6)                 |   |
| USA NIOSH                 | NIOSH REL (TWA) (mg/m³)     | 125 mg/m³                                 |
| USA NIOSH                 | NIOSH REL (TWA) (ppm)       | 25 ppm                                    |
| Hydrogen sulfide (7783-0  | n6-4)                       | <u> </u>                                  |
| Mexico                    | OEL TWA (mg/m³)             | 14 mg/m³                                  |
| Mexico                    | OEL TWA (ppm)               | 10 ppm                                    |
| Mexico                    | OEL STEL (mg/m³)            | 21 mg/m³                                  |
| Mexico                    | OEL STEL (ppm)              | 15 ppm                                    |
| USA ACGIH                 | ACGIH TWA (ppm)             | 1 ppm                                     |
| USA ACGIH                 | ACGIH STEL (ppm)            | 5 ppm                                     |
| USA OSHA                  | OSHA PEL (Ceiling) (ppm)    | 20 ppm                                    |
| USA NIOSH                 | NIOSH REL (ceiling) (mg/m³) | 15 mg/m³                                  |
| USA NIOSH                 | NIOSH REL (ceiling) (ppm)   | 10 ppm                                    |
| USA IDLH                  | US IDLH (ppm)               | 100 ppm                                   |
| Alberta                   | OEL Ceiling (mg/m³)         | 21 mg/m³                                  |
| Alberta                   | OEL Ceiling (ppm)           | 15 ppm                                    |
| Alberta                   | OEL TWA (mg/m³)             | 14 mg/m³                                  |
| Alberta                   | OEL TWA (ppm)               | 10 ppm                                    |
| British Columbia          | OEL Ceiling (ppm)           | 10 ppm                                    |
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| Manitoba               | OEL STEL (ppm)          | 5 ppm   |
|------------------------|-------------------------|---|
| Manitoba               | OEL TWA (ppm)           | 1 ppm   |
| New Brunswick          | OEL STEL (mg/m³)        | 21 mg/m³  |
| New Brunswick          | OEL STEL (ppm)          | 15 ppm  |
| New Brunswick          | OEL TWA (mg/m³)         | 14 mg/m³  |
| New Brunswick          | OEL TWA (ppm)           | 10 ppm  |
| Newfoundland &         | OEL STEL (ppm)          | 5 ppm   |
| Labrador               | (11)                    |   |
| Newfoundland &         | OEL TWA (ppm)           | 1 ppm   |
| Labrador               |                         |   |
| Nova Scotia            | OEL STEL (ppm)          | 5 ppm   |
| Nova Scotia            | OEL TWA (ppm)           | 1 ppm   |
| Nunavut                | OEL Ceiling (mg/m³)     | 28 mg/m³  |
| Nunavut                | OEL Ceiling (ppm)       | 20 ppm  |
| Nunavut                | OEL STEL (mg/m³)        | 21 mg/m³  |
| Nunavut                | OEL STEL (ppm)          | 15 ppm  |
| Nunavut                | OEL TWA (mg/m³)         | 14 mg/m³  |
| Nunavut                | OEL TWA (ppm)           | 10 ppm  |
| Northwest Territories  | OEL Ceiling (mg/m³)     | 28 mg/m³  |
| Northwest Territories  | OEL Ceiling (ppm)       | 20 ppm  |
| Northwest Territories  | OEL STEL (mg/m³)        | 21 mg/m³  |
| Northwest Territories  | OEL STEL (ppm)          | 15 ppm  |
| Northwest Territories  | OEL TWA (mg/m³)         | 14 mg/m³  |
| Northwest Territories  | OEL TWA (ppm)           | 10 ppm  |
| Ontario                | OEL STEL (ppm)          | 15 ppm  |
| Ontario                | OEL TWA (ppm)           | 10 ppm  |
| Prince Edward Island   | OEL STEL (ppm)          | 5 ppm   |
| Prince Edward Island   | OEL TWA (ppm)           | 1 ppm   |
| Québec                 | VECD (mg/m³)            | 21 mg/m³  |
| Québec                 | VECD (ppm)              | 15 ppm  |
| Québec                 | VEMP (mg/m³)            | 14 mg/m³  |
| Québec                 | VEMP (ppm)              | 10 ppm  |
| Saskatchewan           | OEL STEL (ppm)          | 15 ppm  |
| Saskatchewan           | OEL TWA (ppm)           | 10 ppm  |
| Yukon                  | OEL STEL (mg/m³)        | 27 mg/m³  |
| Yukon                  | OEL STEL (ppm)          | 15 ppm  |
| Yukon                  | OEL TWA (mg/m³)         | 15 mg/m³  |
| Yukon                  | OEL TWA (ppm)           | 10 ppm  |
| 1,3,5-Trimethylbenzene | (108-67-8)              |   |
| USA NIOSH              | NIOSH REL (TWA) (mg/m³) | 125 mg/m³   |
| USA NIOSH              | NIOSH REL (TWA) (ppm)   | 25 ppm  |
| Quartz (14808-60-7)    |                         |   |
| Mexico                 | OEL TWA (mg/m³)         | 0.1 mg/m³   |
| USA ACGIH              | ACGIH TWA (mg/m³)       | 0.025 mg/m³   |
| USA OSHA               | OSHA PEL (STEL) (mg/m³) | 250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2 |
| USA NIOSH              | NIOSH REL (TWA) (mg/m³) | 0.05 mg/m <sup>3</sup>  |
| USA IDLH               | US IDLH (mg/m³)         | 50 mg/m³  |
| Alberta                | OEL TWA (mg/m³)         | 0.025 mg/m³   |
| British Columbia       | OEL TWA (mg/m³)         | 0.025 mg/m³   |
| Manitoba               | OEL TWA (mg/m³)         | 0.025 mg/m³   |
| New Brunswick          | OEL TWA (mg/m³)         | 0.1 mg/m³   |
| Newfoundland &         | OEL TWA (mg/m³)         | 0.025 mg/m³   |
| Labrador               |                         |   |
| Nova Scotia            | OEL TWA (mg/m³)         | 0.025 mg/m³   |
| Nunavut                | OEL TWA (mg/m³)         | 0.3 mg/m³ (total mass)  |

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| [N. 0] (T. 0)            | OEL TIME ( / 2)   |   |
|--------------------------|---|---|
| Northwest Territories    | OEL TWA (mg/m³)   | 0.3 mg/m³ (total mass)                        |
| Ontario                  | OEL TWA (mg/m³)   | 0.10 mg/m³ (designated substances regulation) |
| Prince Edward Island     | OEL TWA (mg/m³)   | 0.025 mg/m³                                   |
| Québec                   | VEMP (mg/m³)  | 0.1 mg/m³                                     |
| Saskatchewan             | OEL TWA (mg/m³)   | 0.05 mg/m³                                    |
| Yukon                    | OEL TWA (mg/m³)   | 300 particle/mL                               |
| Isopropyl alcohol (67-63 | -0)   |   |
| Mexico                   | OEL TWA (mg/m³)   | 980 mg/m³                                     |
| Mexico                   | OEL TWA (ppm)   | 400 ppm                                       |
| Mexico                   | OEL STEL (mg/m³)  | 1225 mg/m³                                    |
| Mexico                   | OEL STEL (ppm)  | 500 ppm                                       |
| USA ACGIH                | ACGIH TWA (ppm)   | 200 ppm                                       |
| USA ACGIH                | ACGIH STEL (ppm)  | 400 ppm                                       |
| USA OSHA                 | OSHA PEL (TWA) (mg/m³)  | 980 mg/m³                                     |
| USA OSHA                 | OSHA PEL (TWA) (ppm)  | 400 ppm                                       |
| USA NIOSH                | NIOSH REL (TWA) (mg/m³)   | 980 mg/m³                                     |
| USA NIOSH                | NIOSH REL (TWA) (ppm)   | 400 ppm                                       |
| USA NIOSH                | NIOSH REL (STEL) (mg/m³)  | 1225 mg/m³                                    |
| USA NIOSH                | NIOSH REL (STEL) (ppm)  | 500 ppm                                       |
| USA IDLH                 | US IDLH (ppm)   | 2000 ppm (10% LEL)                            |
| Alberta                  | OEL STEL (mg/m³)  | 984 mg/m³                                     |
| Alberta                  | OEL STEL (ppm)  | 400 ppm                                       |
| Alberta                  | OEL TWA (mg/m³)   | 492 mg/m³                                     |
| Alberta                  | OEL TWA (ppm)   | 200 ppm                                       |
| British Columbia         | OEL STEL (ppm)  | 400 ppm                                       |
| British Columbia         | OEL TWA (ppm)   | 200 ppm                                       |
| Manitoba                 | OEL STEL (ppm)  | 400 ppm                                       |
| Manitoba                 | OEL TWA (ppm)   | 200 ppm                                       |
| New Brunswick            | OEL STEL (mg/m³)  | 1230 mg/m³                                    |
| New Brunswick            | OEL STEL (ppm)  | 500 ppm                                       |
| New Brunswick            | OEL TWA (mg/m³)   | 983 mg/m³                                     |
| New Brunswick            | OEL TWA (ppm)   | 400 ppm                                       |
| Newfoundland &           | OEL STEL (ppm)  | 400 ppm                                       |
| Labrador                 | ( ) ) ) ) |   |
| Newfoundland &           | OEL TWA (ppm)   | 200 ppm                                       |
| Labrador                 |   |   |
| Nova Scotia              | OEL STEL (ppm)  | 400 ppm                                       |
| Nova Scotia              | OEL TWA (ppm)   | 200 ppm                                       |
| Nunavut                  | OEL STEL (mg/m³)  | 1228 mg/m³                                    |
| Nunavut                  | OEL STEL (ppm)  | 500 ppm                                       |
| Nunavut                  | OEL TWA (mg/m³)   | 983 mg/m³                                     |
| Nunavut                  | OEL TWA (ppm)   | 400 ppm                                       |
| Northwest Territories    | OEL STEL (mg/m³)  | 1228 mg/m³                                    |
| Northwest Territories    | OEL STEL (ppm)  | 500 ppm                                       |
| Northwest Territories    | OEL TWA (mg/m³)   | 983 mg/m³                                     |
| Northwest Territories    | OEL TWA (ppm)   | 400 ppm                                       |
| Ontario                  | OEL STEL (ppm)  | 400 ppm                                       |
| Ontario                  | OEL TWA (ppm)   | 200 ppm                                       |
| Prince Edward Island     | OEL STEL (ppm)  | 400 ppm                                       |
| Prince Edward Island     | OEL TWA (ppm)   | 200 ppm                                       |
| Québec                   | VECD (mg/m³)  | 1230 mg/m³                                    |
| Québec                   | VECD (ppm)  | 500 ppm                                       |
| Québec                   | VEMP (mg/m³)  | 985 mg/m³                                     |
| Québec                   | VEMP (ppm)  | 400 ppm                                       |
| Saskatchewan             | OEL STEL (ppm)  | 400 ppm                                       |
| Cachatonoman             | (PP''')   | 1 .22 bb                                      |

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| Saskatchewan          | OEL TWA (ppm)           | 200 ppm    |
|-----------------------|-------------------------|------------|
| Yukon                 | OEL STEL (mg/m³)        | 1225 mg/m³ |
| Yukon                 | OEL STEL (ppm)          | 500 ppm    |
| Yukon                 | OEL TWA (mg/m³)         | 980 mg/m³  |
| Yukon                 | OEL TWA (ppm)           | 400 ppm    |
| Aluminum (7429-90-5)  |                         |            |
| Mexico                | OEL TWA (mg/m³)         | 10 mg/m³   |
| USA ACGIH             | ACGIH TWA (mg/m³)       | 1 mg/m³    |
| USA OSHA              | OSHA PEL (TWA) (mg/m³)  | 5 mg/m³    |
| USA NIOSH             | NIOSH REL (TWA) (mg/m³) | 5 mg/m³    |
| Alberta               | OEL TWA (mg/m³)         | 10 mg/m³   |
| British Columbia      | OEL TWA (mg/m³)         | 1.0 mg/m³  |
| Manitoba              | OEL TWA (mg/m³)         | 1 mg/m³    |
| New Brunswick         | OEL TWA (mg/m³)         | 10 mg/m³   |
| Newfoundland &        | OEL TWA (mg/m³)         | 1 mg/m³    |
| Labrador              |                         |            |
| Nova Scotia           | OEL TWA (mg/m³)         | 1 mg/m³    |
| Nunavut               | OEL STEL (mg/m³)        | 20 mg/m³   |
| Nunavut               | OEL TWA (mg/m³)         | 10 mg/m³   |
| Northwest Territories | OEL STEL (mg/m³)        | 20 mg/m³   |
| Northwest Territories | OEL TWA (mg/m³)         | 10 mg/m³   |
| Ontario               | OEL TWA (mg/m³)         | 1 mg/m³    |
| Prince Edward Island  | OEL TWA (mg/m³)         | 1 mg/m³    |
| Québec                | VEMP (mg/m³)            | 10 mg/m³   |
| Saskatchewan          | OEL STEL (mg/m³)        | 20 mg/m³   |
| Saskatchewan          | OEL TWA (mg/m³)         | 10 mg/m³   |

#### **Exposure Controls**

**Appropriate Engineering Controls:** Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing: Not available

Hand Protection: protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory

protection should be worn.

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

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on Basic Physical and Chemical Properties
Physical State : Liquid

Appearance: Viscous, SilverOdor: Petroleum distillate

Odor Threshold : Not available
pH : Not available
Relative Evaporation Rate (butylacetate=1) : Not available
Melting Point : Not available
Freezing Point : Not available
Boiling Point : Not available
Flash Point : 41 °C (105.8°F)

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Auto-ignition Temperature Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available Lower Flammable Limit Not available Upper Flammable Limit Not available Vapor Pressure Not available Relative Vapor Density at 20 °C Not available **Relative Density** Not available **Specific Gravity** 0.95 g/ml Solubility Negligible Partition coefficient: n-octanol/water Not available Viscosity Not available

**Explosion Data - Sensitivity to Mechanical** 

**Impact** 

Not expected to present an explosion hazard due to mechanical

impact.

**Explosion Data – Sensitivity to Static** : Not expected to present an explosion hazard due to static discharge.

Discharge

#### **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Flammable liquid and vapor. **Chemical Stability:** Product is stable.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur. **Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame.

**Incompatible Materials:** strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur and/or nitrogen. Hydrogen sulfide and other sulfur-containing gases can evolve from this product particularily at elevated temperatures. Hot asphalt can release toxic Hydrogen Sulfide gas! Hydrogen Sulfide can accumulate in vapor space of tanks and vessels during transfer and storage of this material.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### Information on Toxicological Effects - Product

Acute Toxicity: Not classified LD50 and LC50 Data: Not available Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Causes serious 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): Causes damage to organs through prolonged or repeated

exposure.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: May cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: May cause skin irritation. Symptoms/Injuries After Eye Contact: Causes eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects. Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| Asphalt (8052-42-4) |              |
|---------------------|--------------|
| LD50 Oral Rat       | > 5000 mg/kg |
| LD50 Dermal Rabbit  | > 2000 mg/kg |

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| according to Federal Register 7 vol. 77, No. 307 Monday, March 20, 2012 / Rules and Regulations |   |   |  |
|---|---|---|--|
| Stoddard solvent (8052-41-3)  |   | 5 // D  |  |
| LD50 Oral Rat   |   | 5 g/kg Behavioral somnolence                                |  |
| LD50 Dermal Rabbit  | >   | 3 mg/kg   |  |
| Benzene, 1,2,4-trimethyl- (95-63-6)   |   |   |  |
| LD50 Oral Rat   | 60  | 000 mg/kg   |  |
| LD50 Dermal Rabbit  | >   | 3160 mg/kg  |  |
| LC50 Inhalation Rat (mg/l)  | 18  | 8 g/m³ (Exposure time: 4 h)                                 |  |
| Hydrogen sulfide (7783-06-4)  |   |   |  |
| LC50 Inhalation Rat (mg/l)  | 0.  | .99 mg/l (Exposure time: 1 h)                               |  |
| 1,3,5-Trimethylbenzene (108-67-8)   |   |   |  |
| LC50 Inhalation Rat (mg/l)  | 24  | 4 g/m³ (Exposure time: 4 h)                                 |  |
| Quartz (14808-60-7)   |   | <u> </u>  |  |
| LD50 Oral Rat   | >   | > 5000 mg/kg  |  |
| Isopropyl alcohol (67-63-0)   |   |   |  |
| LD50 Oral Rat   | Ι Λ'  | 396 mg/kg   |  |
| LD50 Oran Rabbit  |   | 2800 mg/kg  |  |
| LC50 Inhalation Rat (ppm)   |   | 6000 ppm (Exposure time: 8 h)                               |  |
|   | l e   |   |  |
| Naphtha, petroleum, hydrodesulfur LD50 Oral Rat   |   | <b>2-1)</b><br>5000 mg/kg                                   |  |
|   |   |   |  |
| LD50 Dermal Rabbit  | >   | 3160 mg/kg  |  |
| Asphalt (8052-42-4)   |   |   |  |
| IARC Group  | 21  | _   |  |
| National Toxicity Program (NTP) Stat  | ıs I'   | welfth Report - Items under consideration.                  |  |
| Quartz (14808-60-7)   | 1.  |   |  |
| IARC Group  | 1   | Z   |  |
|   |   | nown Human Carcinogens.                                     |  |
|   | Isopropyl alcohol (67-63-0)   |   |  |
| IARC Group  | 3   |   |  |
| SECTION 12: ECOLOGICAL IN   | FORMATION   |   |  |
| <b>Toxicity</b> Not classified  |   |   |  |
| Stoddard solvent (8052-41-3)  |   |   |  |
| LC50 Fish 1   | 0.42 mg/l   |   |  |
| Benzene, 1,2,4-trimethyl- (95-63-6)   |   |   |  |
| LC50 Fish 1   | 7.19 (7.19 - 8.28) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |   |  |
| EC50 Daphnia 1  |   | time: 48 h - Species: Daphnia magna)                        |  |
| Hydrogen sulfide (7783-06-4)  | <u> </u>  |   |  |
| LC50 Fish 1   | 0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])             |   |  |
| LC 50 Fish 2  |   | e time: 96 h - Species: Pimephales promelas [flow-through]) |  |
| 1,3,5-Trimethylbenzene (108-67-8)   |   |   |  |
| LC50 Fish 1 3.48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)                      |   |   |  |
| Isopropyl alcohol (67-63-0)   | <u> </u>  | /   |  |
| LC50 Fish 1   | 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])               |   |  |
| EC50 Daphnia 1  | 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                   |   |  |
| EC50 Other Aquatic Organisms 1  | 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)                          |   |  |
| LC 50 Fish 2  | 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                    |   |  |
| EC50 Other Aquatic Organisms 2  | 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)                          |   |  |
| Persistence and Degradability   |   |   |  |
| MAC 200 <sup>TM</sup>   |   |   |  |
| Persistence and Degradability   | Not established.  |   |  |

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#### **Bioaccumulative Potential**

| MAC 200 <sup>TM</sup>               |  |  |
|-------------------------------------|--|--|
| Bioaccumulative Potential           | Not established.                                     |  |
| Asphalt (8052-42-4)                 |  |  |
| BCF fish 1                          | (no bioaccumulation expected)                        |  |
| Log Pow                             | > 6  |  |
| Stoddard solvent (8052-41-3)        |  |  |
| Log Pow                             | 3.16 (Octanol/water partition coefficient 3.16/7.06) |  |
| Benzene, 1,2,4-trimethyl- (95-63-6) |  |  |
| Log Pow                             | 3.63   |  |
| Hydrogen sulfide (7783-06-4)        |  |  |
| BCF fish 1                          | (no bioaccumulation expected)                        |  |
| Log Pow                             | 0.45 (at 25 °C)                                      |  |
| Isopropyl alcohol (67-63-0)         |  |  |
| Log Pow                             | 0.05 (at 25 °C)                                      |  |

#### Mobility in Soil Not available

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, and international regulations.

Additional Information: Prevent runoff from entering drains, sewers or waterways.

#### **SECTION 14: TRANSPORT INFORMATION**

#### 14.1 In Accordance with DOT

Proper Shipping Name : Not regulated

Hazard Class

Identification Number : UN1999

Label Codes
Packing Group

ERG Number

14.2 In Accordance with IMDG

Proper Shipping Name : Tars, liquid Hazard Class : 3

Identification Number : UN1999

Packing Group : III
Label Codes : 3
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E

MFAG Number :

14.3 In Accordance with IATA

Proper Shipping Name : Tars, liquid

Packing Group : III

Identification Number : UN1999

Hazard Class : 3 Label Codes : 3L ERG Code (IATA) : 3L

14.4 In Accordance with TDG Not regulated for transport

#### **SECTION 15: REGULATORY INFORMATION**

#### **US Federal Regulations**

#### Asphalt (8052-42-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory





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| Stoddard solvent (8052-41-3)   |  |  |
|--|--|--|
| Listed on the United States TSCA (Toxic Substances Con-  | trol Act) inventory  |  |
| Benzene, 1,2,4-trimethyl- (95-63-6)  |  |  |
| Listed on the United States TSCA (Toxic Substances Con-  | trol Act) inventory  |  |
| Listed on SARA Section 313 (Specific toxic chemical listing  |  |  |
| SARA Section 313 - Emission Reporting  | 1.0 %  |  |
| Hydrogen sulfide (7783-06-4)   |  |  |
| Listed on the United States TSCA (Toxic Substances Con-  |  |  |
| Listed on SARA Section 302 (Specific toxic chemical listing  |  |  |
| Listed on SARA Section 313 (Specific toxic chemical listing  | gs)  |  |
| SARA Section 302 Threshold Planning Quantity   | 500  |  |
| (TPQ)  |  |  |
| SARA Section 313 - Emission Reporting  | 1.0 %  |  |
| 1,3,5-Trimethylbenzene (108-67-8)  |  |  |
| Listed on the United States TSCA (Toxic Substances Con-  | trol Act) inventory  |  |
| EPA TSCA Regulatory Flag   | T - T - indicates a substance that is the subject of a Section 4 |  |
|  | test rule under TSCA.  |  |
| Quartz (14808-60-7)  |  |  |
| Listed on the United States TSCA (Toxic Substances Con-  | trol Act) inventory  |  |
| Isopropyl alcohol (67-63-0)  |  |  |
| Listed on the United States TSCA (Toxic Substances Con-  | trol Act) inventory  |  |
| Listed on SARA Section 313 (Specific toxic chemical listing  |  |  |
| EPA TSCA Regulatory Flag   | T - T - indicates a substance that is the subject of a Section 4 |  |
|  | test rule under TSCA.  |  |
| SARA Section 313 - Emission Reporting  | 1.0 % (only if manufactured by the strong acid process, no       |  |
|  | supplier notification)   |  |
| Aluminum (7429-90-5)   |  |  |
| Listed on the United States TSCA (Toxic Substances Con-  | trol Act) inventory  |  |
| Listed on SARA Section 313 (Specific toxic chemical listings)  |  |  |
| SARA Section 313 - Emission Reporting  | 1.0 % (dust or fume only)  |  |
| Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1)   |  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                |  |  |
| US State Regulations   |  |  |
| Quartz (14808-60-7)  |  |  |
| U.S California - Proposition 65 - Carcinogens List WARNING: This product contains chemicals known to the |  |  |
| 2.2. Samonia Proposition of Garomogono List  | State of California to cause cancer.                             |  |
| Asphalt (8052-42-4)  |  |  |
| Aspnat (0052-42-4)   |  |  |

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- RTK U.S. Pennsylvania RTK (Right to Know) List

#### Stoddard solvent (8052-41-3)

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- RTK U.S. Pennsylvania RTK (Right to Know) List

#### Benzene, 1,2,4-trimethyl- (95-63-6)

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List

#### Hydrogen sulfide (7783-06-4)

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List

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#### 1,3,5-Trimethylbenzene (108-67-8)

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

#### Quartz (14808-60-7)

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- RTK U.S. Pennsylvania RTK (Right to Know) List

#### Isopropyl alcohol (67-63-0)

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List

#### Aluminum (7429-90-5)

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List

#### **Canadian Regulations**

| MAC 200" | VI |
|----------|----|
|----------|----|

WHMIS Classification Class B Division 3 - Combustible Liquid

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects





#### Asphalt (8052-42-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Stoddard solvent (8052-41-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class B Division 3 - Combustible Liquid

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### Benzene, 1,2,4-trimethyl- (95-63-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class B Division 3 - Combustible Liquid

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### Hydrogen sulfide (7783-06-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class A - Compressed Gas

Class B Division 1 - Flammable Gas

Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic

effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### 1,3,5-Trimethylbenzene (108-67-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class B Division 3 - Combustible Liquid

#### Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

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| WHMIS Classification   | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |  |
|--|--|--|
| Isopropyl alcohol (67-63-0)                                      |  |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |  |  |
| Listed on the Canadian Ingredient Disclosure List                |  |  |
| WHMIS Classification   | Class B Division 2 - Flammable Liquid  |  |
|  | Class D Division 2 Subdivision B - Toxic material causing other toxic effects      |  |
| Aluminum (7429-90-5)   |  |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |  |  |
| Listed on the Canadian Ingredient Disclosure List                |  |  |
| WHMIS Classification   | Class B Division 6 - Reactive Flammable Material                                   |  |
|  | Class B Division 4 - Flammable Solid   |  |
| Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1)         |  |  |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |  |  |

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, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date** : 01/01/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the

OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### Party Responsible for the Preparation of This Document

Bitec, Inc. #2 Industrial Park Drive Morrilton, AR 72110 T-800-535-8597 F-501-354-3019

This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

North America GHS US 2012 & WHMIS

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