



## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| <b>Product Name</b>                  | • <b>Rubber Solvent</b>                           |
| <b>CAS Number</b>                    | • 64742-49-0                                      |
| <b>Product Code</b>                  | • 16-220; 16-221; 16-222                          |
| <b>EC Number</b>                     | • 265-151-9                                       |
| <b>REACH Pre-Registration Number</b> | • 05-2117850959-22-0000                           |
| <b>Product Description</b>           | • Clear flammable liquid with a hydrocarbon odor. |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Relevant identified use(s)</b> | • Tire repair surface preparation |
|-----------------------------------|-----------------------------------|

#### 1.3 Details of the supplier of the safety data sheet

|                            |                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------|
| <b>Manufacturer</b>        | • Patch Rubber Company<br>100 Patch Rubber Road<br>Weldon, NC 27890<br>United States |
| <b>Telephone (General)</b> | • (252)-536-2574                                                                     |
| <b>Responsible party</b>   | • Christian Gimenez<br>Intertek Analytical Services France<br>France                 |

**Telephone (Technical)** • 33 (0) 6 07 11 22 15

#### 1.4 Emergency telephone number

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| <b>Manufacturer</b> | • 1-800-424-9300 - CHEMTREC                                                  |
| <b>Manufacturer</b> | • +1 703-527-3887 - CHEMTREC - Outside USA & CANADA (collect calls accepted) |

### Section 2: Hazards Identification

#### EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

|            |                                                                                                                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLP</b> | • Flammable Liquids 2 - H225<br>Skin Irritation 2 - H315<br>Aspiration 1 - H304<br>Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336<br>Hazardous to the aquatic environment Chronic 1 - H410<br>Hazardous to the aquatic environment Acute 1 - H400 |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## DSD/DPD

- Highly Flammable (F)  
Irritant (Xi)  
Harmful (Xn)  
Dangerous to the Environment (N)  
R11, R50, R53, R38, R65, R67

## 2.2 Label Elements

### CLP

#### DANGER



#### Hazard statements

- H225 - Highly flammable liquid and vapour
- H336 - May cause drowsiness or dizziness
- H315 - Causes skin irritation
- H304 - May be fatal if swallowed and enters airways
- H410 - Very toxic to aquatic life with long lasting effects

#### Precautionary statements

- Prevention**
  - P102 - Keep out of reach of children.
  - P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  - P273 - Avoid release to the environment.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
  - P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - P331 - Do NOT induce vomiting.

- Storage/Disposal**
  - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## DSD/DPD



- Risk phrases**
  - R11 - Highly flammable.
  - R38 - Irritating to skin.
  - R65 - Harmful: may cause lung damage if swallowed.
  - R67 - Vapours may cause drowsiness and dizziness.
  - R50 - Very toxic to aquatic organisms.
  - R53 - May cause long-term adverse effects in the aquatic environment.

- Safety phrases**
  - S2 - Keep out of reach of children.
  - S9 - Keep container in a well ventilated place
  - S16 - Keep away from sources of ignition - No Smoking.
  - S29 - Do not empty into drains.
  - S33 - Take precautionary measures against static discharges.
  - S60 - This material and its container must be disposed of as hazardous waste.
  - S61 - Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.
  - S62 - If swallowed, do not induce vomiting. Seek medical advice immediately and show the container or label.

## 2.3 Other Hazards

### CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.  
This material contain less than 0.1% Benzene therefore the carcinogen and mutagen classifications listed in Annex VI are not applicable.

### DSD/DPD

- This product is considered dangerous according to the European Directive 67/548/EEC.  
This material contain less than 0.1% Benzene therefore the carcinogen and mutagen classifications listed in Annex I are not applicable.

## UN GHS

According to Third Revised Edition

### 2.1 Classification of the substance or mixture

UN GHS

- Flammable Liquids 2 - H225
- Skin Irritation 2 - H315
- Aspiration 1 - H304
- Specific Target Organ Toxicity Single Exposure 3; Narcotic Effects - H336
- Hazardous to the aquatic environment Acute 1 - H400
- Hazardous to the aquatic environment Chronic 1 - H410

### 2.2 Label elements

UN GHS

#### DANGER



#### Hazard statements

- H225 - Highly flammable liquid and vapour
- H315 - Causes skin irritation
- H336 - May cause drowsiness or dizziness
- H304 - May be fatal if swallowed and enters airways
- H410 - Very toxic to aquatic life with long lasting effects

#### Precautionary statements

- Prevention**
- P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  - P235 - Keep cool.
  - P243 - Take precautionary measures against static discharge.
  - P240 - Ground and/or bond container and receiving equipment.
  - P242 - Use only non-sparking tools.
  - P241 - Use explosion-proof - electrical, ventilating and/or lighting equipment.
  - P271 - Use only outdoors or in a well-ventilated area.
  - P233 - Keep container tightly closed.
  - P261 - Avoid breathing dust, fume, gas, mist, vapours and/or spray.
  - P280 - Wear protective gloves and eye/face protection.
  - P285 - In case of inadequate ventilation wear respiratory protection.
  - P264 - Wash thoroughly after handling.
  - P273 - Avoid release to the environment.

- Response**
- P370+P378 - In case of fire: Use appropriate media for extinction.
  - P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
  - P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
  - P362 - Take off contaminated clothing and wash before reuse.
  - P332+P313 - If skin irritation occurs: Get medical advice/attention.
  - P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - P331 - Do NOT induce vomiting.
  - P391 - Collect spillage.

- Storage/Disposal**
- P403+P235 - Store in a well-ventilated place. Keep cool.
  - P405 - Store locked up.
  - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 2.3 Other hazards

UN GHS

- According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

**2.1 Classification of the substance or mixture****OSHA HCS**

- Flammable Liquid  
Flammable/Combustible Class IB  
Irritant  
Target Organ Effects - Central Nervous System (CNS)

**2.2 Label elements****OSHA HCS**

- Not required

**2.3 Other hazards****OSHA HCS**

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

**Canada**

According to WHMIS

**2.1 Classification of the substance or mixture****WHMIS**

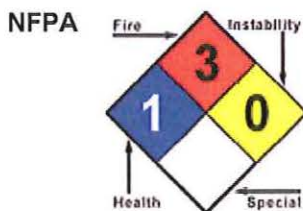
- Flammable Liquids - B2  
Other Toxic Effects - D2B

**2.2 Label elements****WHMIS**

- Flammable Liquids - B2  
Other Toxic Effects - D2B

**2.3 Other hazards****WHMIS**

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

**2.4 Other information**

See Section 12 for Ecological Information.

**Section 3 - Composition/Information on Ingredients****3.1 Substances**

| Hazardous Components |             |            |           |                                                       |          |
|----------------------|-------------|------------|-----------|-------------------------------------------------------|----------|
| Chemical Name        | Identifiers | % (weight) | LD50/LC50 | Classifications According to Regulation/Directive     | Comments |
|                      |             |            |           | UN GHS: Flam Liq 2; Asp. 1; Skin Irrit. 2; STOT SE 3: |          |

|                                         |                                       |      |     |                                                                                                                                                                                                                            |     |
|-----------------------------------------|---------------------------------------|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Naphtha (petroleum), hydrotreated light | CAS:64742-49-0<br>EC Number:265-151-9 | 100% | NDA | Narc.; Aquatic Acute 1; Aquatic Chronic 1;<br>EU DSD/DPD: Annex I - F; R11 Xi; R38 N; R50 R53 Xn;<br>R65 R67<br>EU CLP: Annex VI - Flam. Liq. 2; Asp. Tox. 1; Skin Irrit. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1 | NDA |
|-----------------------------------------|---------------------------------------|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|

### 3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

See Section 11 for Toxicological Information.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- |                   |                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b> | <ul style="list-style-type: none"> <li>Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.</li> </ul>                                                                                                                      |
| <b>Skin</b>       | <ul style="list-style-type: none"> <li>In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.</li> </ul> |
| <b>Eye</b>        | <ul style="list-style-type: none"> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</li> </ul>                                                          |
| <b>Ingestion</b>  | <ul style="list-style-type: none"> <li>Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.</li> </ul>                                                                                                             |

### 4.2 Most important symptoms and effects, both acute and delayed

- Inhalation of vapors or fumes will cause central nervous system effects with symptoms of dizziness, drowsiness, lethargy, coma and death. Material aspirated into the lungs during ingestion and/or subsequent vomiting will cause lung damage, chemical pneumonitis, pulmonary edema or death. May cause skin irritation. Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

- |                           |                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to Physician</b> | <ul style="list-style-type: none"> <li>Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.</li> </ul> |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|

### 4.4 Other information

- Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Keep victim warm and quiet.

See Section 2 for Potential Health Effects.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- |                                       |                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | <ul style="list-style-type: none"> <li>Carbon dioxide (CO<sub>2</sub>), water fog, dry chemical or chemical foam.</li> </ul>                                        |
| <b>Unsuitable Extinguishing Media</b> | <ul style="list-style-type: none"> <li>Avoid the use of streaming water, as this may spread the fire.</li> </ul>                                                    |
| <b>Firefighting Procedures</b>        | <ul style="list-style-type: none"> <li>Move containers from fire area if you can do it without risk. Use water spray to cool containers exposed to fire.</li> </ul> |

### 5.2 Special hazards arising from the substance or mixture

- |                                           |                                                                                                                                                                                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unusual Fire and Explosion Hazards</b> | <ul style="list-style-type: none"> <li>HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Extremely flammable liquid and vapor.</li> </ul> |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Vapors may form explosive mixtures with air.  
Vapor explosion hazard indoors, outdoors or in sewers.  
Vapors may travel to source of ignition and flash back.  
Runoff to sewer may create fire or explosion hazard.

#### **Hazardous Combustion Products**

- Smoke, soot, fumes or vapors, oxides of carbon.

### **5.3 Advice for firefighters**

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

## **Section 6 - Accidental Release Measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

#### **Personal Precautions**

- Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

#### **Emergency Procedures**

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

### **6.2 Environmental precautions**

- Prevent entry into waterways, sewers, basements or confined areas.

### **6.3 Methods and material for containment and cleaning up**

#### **Containment/Clean-up Measures**

- Stop leak if you can do it without risk.  
All equipment used when handling the product must be grounded.  
Absorb or cover with dry earth, sand or other non -combustible material and transfer to containers.  
Use clean non-sparking tools to collect absorbed material.  
A vapor suppressing foam may be used to reduce vapors.  
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

### **6.4 Reference to other sections**

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## **Section 7 - Handling and Storage**

### **7.1 Precautions for safe handling**

#### **Handling**

- Keep away from heat and ignition sources – No Smoking. Product can accumulate static charge by flow or agitation. Bond and ground equipment when transferring from one vessel to another. Empty containers retain product residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other ignition sources. They may explode and cause injury or death. Use only with adequate ventilation. Do not enter confined spaces such as tanks or pits without following proper entry procedures.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Storage**

- Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Keep container closed when not in use. Keep away from incompatible materials.

#### **Incompatible Materials or Ignition Sources**

- Keep away from heat, ignition sources oxidizers and strong acids.

### **7.3 Specific end use(s)**

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

| Exposure Limits/Guidelines      |        |                 |                                                                                                                                                                               |                                    |                                 |                                                                                |
|---------------------------------|--------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|--------------------------------------------------------------------------------|
|                                 | Result | ACGIH           | Canada Ontario                                                                                                                                                                | Canada Quebec                      | Europe                          | France                                                                         |
| Methylcyclohexane<br>(108-87-2) | TWAs   | 400 ppm TWA     | 400 ppm TWAEV;<br>1600 mg/m3 TWAEV                                                                                                                                            | 400 ppm TWAEV;<br>1610 mg/m3 TWAEV | Not established                 | 400 ppm VME; 1600<br>mg/m3 VME                                                 |
| 3-Methylhexane<br>(589-34-4)    | STELs  | 500 ppm STEL    | Not established                                                                                                                                                               | Not established                    | Not established                 | Not established                                                                |
|                                 | TWAs   | 400 ppm TWA     | Not established                                                                                                                                                               | Not established                    | Not established                 | Not established                                                                |
| Hexane, 2-methyl-<br>(591-76-4) | STELs  | 500 ppm STEL    | Not established                                                                                                                                                               | Not established                    | Not established                 | Not established                                                                |
|                                 | TWAs   | 400 ppm TWA     | Not established                                                                                                                                                               | Not established                    | Not established                 | Not established                                                                |
| Ethylbenzene<br>(100-41-4)      | STELs  | 125 ppm STEL    | 125 ppm STEV; 540<br>mg/m3 STEV                                                                                                                                               | 125 ppm STEV; 543<br>mg/m3 STEV    | Not established                 | 100 ppm VLCT<br>(restrictive limit); 442<br>mg/m3 VLCT<br>(restrictive limit)  |
|                                 | TWAs   | 100 ppm TWA     | 100 ppm TWAEV;<br>435 mg/m3 TWAEV                                                                                                                                             | 100 ppm TWAEV;<br>434 mg/m3 TWAEV  | Not established                 | 20 ppm VME<br>(restrictive limit); 88.4<br>mg/m3 VME<br>(restrictive limit)    |
| Benzene<br>(71-43-2)            | STELs  | 2.5 ppm STEL    | 2.5 ppm STEV<br>(applies to<br>workplaces to which<br>the designated<br>substance regulation<br>does not apply); 2.5<br>ppm STEV<br>(designated<br>substances<br>regulation)  | 5 ppm STEV; 15.5<br>mg/m3 STEV     | Not established                 | Not established                                                                |
|                                 | TWAs   | 0.5 ppm TWA     | 0.5 ppm TWAEV<br>(applies to<br>workplaces to which<br>the designated<br>substance regulation<br>does not apply); 0.5<br>ppm TWAEV<br>(designated<br>substance<br>regulation) | 1 ppm TWAEV; 3<br>mg/m3 TWAEV      | Not established                 | 1 ppm VME<br>(restrictive limit); 3.25<br>mg/m3 VME<br>(restrictive limit)     |
| Toluene<br>(108-88-3)           | STELs  | Not established | Not established                                                                                                                                                               | Not established                    | 100 ppm STEL; 384<br>mg/m3 STEL | 100 ppm VLCT<br>(restrictive limit); 384<br>mg/m3 VLCT<br>(restrictive limit)  |
|                                 | TWAs   | 20 ppm TWA      | 20 ppm TWAEV                                                                                                                                                                  | 50 ppm TWAEV; 188<br>mg/m3 TWAEV   | 50 ppm TWA; 192<br>mg/m3 TWA    | 50 ppm VME<br>(restrictive limit); 192<br>mg/m3 VME<br>(restrictive limit)     |
| Heptane<br>(142-82-5)           | STELs  | 500 ppm STEL    | 500 ppm STEV; 2045<br>mg/m3 STEV                                                                                                                                              | 500 ppm STEV; 2050<br>mg/m3 STEV   | Not established                 | 500 ppm VLCT<br>(restrictive limit);<br>2085 mg/m3 VLCT<br>(restrictive limit) |
|                                 |        |                 |                                                                                                                                                                               |                                    |                                 | 400 ppm VME                                                                    |

|                                            | TWAs     | 400 ppm TWA                     | 400 ppm TWAEV;<br>1635 mg/m3 TWAEV                          | 400 ppm TWAEV;<br>1640 mg/m3 TWAEV                                                                                       | Not established | (restrictive limit);<br>1668 mg/m3 VME<br>(restrictive limit) |
|--------------------------------------------|----------|---------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------|
| <b>Exposure Limits/Guidelines (Con't.)</b> |          |                                 |                                                             |                                                                                                                          |                 |                                                               |
|                                            | Result   | Italy                           | NIOSH                                                       | OSHA                                                                                                                     |                 |                                                               |
| Methylcyclohexane<br>(108-87-2)            | TWAs     | Not established                 | 400 ppm TWA; 1600<br>mg/m3 TWA                              | 500 ppm TWA; 2000<br>mg/m3 TWA                                                                                           |                 |                                                               |
| Ethylbenzene<br>(100-41-4)                 | STELs    | 200 ppm STEL; 884<br>mg/m3 STEL | 125 ppm STEL; 545<br>mg/m3 STEL                             | Not established                                                                                                          |                 |                                                               |
|                                            | TWAs     | 100 ppm TWA; 442<br>mg/m3 TWA   | 100 ppm TWA; 435<br>mg/m3 TWA                               | 100 ppm TWA; 435<br>mg/m3 TWA                                                                                            |                 |                                                               |
| Benzene<br>(71-43-2)                       | TWAs     | 1 ppm TWA; 3.25<br>mg/m3 TWA    | 0.1 ppm TWA                                                 | 10 ppm TWA (applies<br>to industry segments<br>exempt from the<br>benzene standard at<br>29 CFR 1910.1028); 1<br>ppm TWA |                 |                                                               |
|                                            | Ceilings | Not established                 | Not established                                             | 25 ppm Ceiling                                                                                                           |                 |                                                               |
|                                            | STELs    | Not established                 | 1 ppm STEL                                                  | 5 ppm STEL (see 29<br>CFR 1910.1028)                                                                                     |                 |                                                               |
| Toluene<br>(108-88-3)                      | TWAs     | 192 ppm TWA; 50<br>mg/m3 TWA    | 100 ppm TWA; 375<br>mg/m3 TWA                               | 200 ppm TWA                                                                                                              |                 |                                                               |
|                                            | Ceilings | Not established                 | Not established                                             | 300 ppm Ceiling                                                                                                          |                 |                                                               |
|                                            | STELs    | Not established                 | 150 ppm STEL; 560<br>mg/m3 STEL                             | Not established                                                                                                          |                 |                                                               |
| Heptane<br>(142-82-5)                      | TWAs     | 500 ppm TWA; 2085<br>mg/m3 TWA  | 85 ppm TWA; 350<br>mg/m3 TWA                                | 500 ppm TWA; 2000<br>mg/m3 TWA                                                                                           |                 |                                                               |
|                                            | Ceilings | Not established                 | 440 ppm Ceiling (15<br>min); 1800 mg/m3<br>Ceiling (15 min) | Not established                                                                                                          |                 |                                                               |

**Exposure Control Notations****Italy**

- Naphtha (petroleum), hydrotreated light (64742-49-0): **Carcinogens:** (Category 2 Carcinogen)
- Benzene (71-43-2): **Carcinogens:** (Category 1 Carcinogen)

**ACGIH**

- Ethylbenzene (100-41-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)
- Toluene (108-88-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Benzene (71-43-2): **Carcinogens:** (A1 - Confirmed Human Carcinogen) | **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)

**Exposure Limits Supplemental****ACGIH**

- Methylcyclohexane (108-87-2): **TLV Basis - Critical Effects:** (CNS impairment; kidney and liver damage; upper respiratory tract irritation)
- 3-Methylhexane (589-34-4): **TLV Basis - Critical Effects:** (CNS impairment; upper respiratory tract irritation)
- Hexane, 2-methyl- (591-76-4): **TLV Basis - Critical Effects:** (CNS impairment; upper respiratory tract irritation)
- Ethylbenzene (100-41-4): **BEIs:** (0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative); Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation) | **Notice of Intended Changes (TLVs):** (20 ppm TWA; A3 - confirmed animal carcinogen with unknown relevance to humans; BEI; TLV basis: upper respiratory tract irritation, kidney damage, cochlear impairment)
- Heptane (142-82-5): **TLV Basis - Critical Effects:** (CNS impairment; upper respiratory tract irritation)
- Toluene (108-88-3): **BEIs:** (0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene; 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)) | **TLV Basis - Critical Effects:** (female reproductive; pregnancy loss; visual impairment)

\*Benzene (71-43-2): BEIs: (25 µg/g creatinine Medium: urine Time: end of shift Parameter: S-Phenylmercapturic acid (background); 500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)) | **TLV Basis - Critical Effects:** (leukemia)

## 8.2 Exposure controls

### Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

#### Eye/Face

- Wear safety goggles.

#### Hands

- Wear protective gloves -neoprene, butyl or nitrile rubber with cuffs.

#### Skin/Body

- Where extensive dermal exposure may be expected, either a chemical suit or chemical apron will be needed.

### General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

### Environmental Exposure Controls

- Avoid release to the environment.

#### Key to abbreviations

VME = Valeur Moyenne d'Exposition is the maximum permissible concentration for a work day

STEL = Short Term Exposure Limits are based on 15-minute exposures

ACGIH = American Conference of Governmental Industrial Hygiene

STEV = Short Term Exposure Value

NIOSH = National Institute of Occupational Safety and Health

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

OSHA = Occupational Safety and Health Administration

TWAEV = Time-Weighted Average Exposure Value

MSHA = Mine Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

| Material Description      |                                    |                                   |                                                 |
|---------------------------|------------------------------------|-----------------------------------|-------------------------------------------------|
| Physical Form             | Liquid                             | Appearance/Description            | Clear flammable liquid with a hydrocarbon odor. |
| Color                     | Clear                              | Odor                              | Hydrocarbon                                     |
| Taste                     | Data lacking                       | Particulate Type                  | Not relevant                                    |
| Particulate Size          | Not relevant                       | Aerosol Type                      | Not relevant                                    |
| Odor Threshold            | Data lacking                       | Physical and Chemical Properties  | Data lacking                                    |
| General Properties        |                                    |                                   |                                                 |
| Boiling Point             | 195 to 210 F(90.5556 to 98.8889 C) | Melting Point                     | Data lacking                                    |
| Decomposition Temperature | Data lacking                       | Heat of Decomposition             | Data lacking                                    |
| pH                        | Data lacking                       | Specific Gravity/Relative Density | 0.696 Water=1                                   |
| Density                   | 5.797 lbs/gal                      | Bulk Density                      | Data lacking                                    |
| Water Solubility          | Negligible                         | Solvent Solubility                | Data lacking                                    |

|                                                     |                                                                      |                                                           |                                  |
|-----------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------|
| <b>Viscosity</b>                                    | 0.83 Centistoke (cSt, cS) or mm <sup>2</sup> /sec @ 100 F(37.7778 C) | <b>Explosive Properties</b>                               | Classification criteria not met. |
| <b>Oxidizing Properties:</b>                        | Classification criteria not met.                                     |                                                           |                                  |
| <b>Volatility</b>                                   |                                                                      |                                                           |                                  |
| <b>Vapor Pressure</b>                               | 45 mmHg (torr) @ 20 C(68 F)                                          | <b>Vapor Density</b>                                      | 3.5 Air=1                        |
| <b>Evaporation Rate</b>                             | 4.2 n-Butyl Acetate = 1                                              | <b>VOC (Wt.)</b>                                          | Data lacking                     |
| <b>VOC (Vol.)</b>                                   | Data lacking                                                         | <b>Volatiles (Wt.)</b>                                    | Data lacking                     |
| <b>Volatiles (Vol.)</b>                             | Data lacking                                                         |                                                           |                                  |
| <b>Flammability</b>                                 |                                                                      |                                                           |                                  |
| <b>Flash Point</b>                                  | 15 F(-9.4444 C)                                                      | <b>Flash Point Test Type</b>                              | Data lacking                     |
| <b>UEL</b>                                          | 6.7 %                                                                | <b>LEL</b>                                                | 1 %                              |
| <b>Autoignition</b>                                 | 475 F(246.1111 C)                                                    | <b>Self-Accelerating Decomposition Temperature (SADT)</b> | Data lacking                     |
| <b>Heat of Combustion (<math>\Delta H_c</math>)</b> | Data lacking                                                         | <b>Burning Time</b>                                       | Data lacking                     |
| <b>Flame Duration</b>                               | Data lacking                                                         | <b>Flame Height</b>                                       | Data lacking                     |
| <b>Flame Extension</b>                              | > 18                                                                 | <b>Ignition Distance</b>                                  | Data lacking                     |
| <b>Flammability (solid, gas)</b>                    | Data lacking                                                         |                                                           |                                  |
| <b>Environmental</b>                                |                                                                      |                                                           |                                  |
| <b>Half-Life</b>                                    | Data lacking                                                         | <b>Octanol/Water Partition coefficient</b>                | 2.1 to 5 log Kow                 |
| <b>Coefficient of water/oil distribution</b>        | Data lacking                                                         | <b>Bioaccumulation Factor</b>                             | Data lacking                     |
| <b>Bioconcentration Factor</b>                      | Data lacking                                                         | <b>Biochemical Oxygen Demand BOD/BOD<sub>5</sub></b>      | Data lacking                     |
| <b>Chemical Oxygen Demand</b>                       | Data lacking                                                         | <b>Persistence</b>                                        | Data lacking                     |
| <b>Degradation</b>                                  | Data lacking                                                         |                                                           |                                  |

## 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- High temperatures, sparks, open flames and live electrical circuits.

### 10.5 Incompatible materials

- Oxidizing agents, strong acids.

### 10.6 Hazardous decomposition products

- In case of fire oxides of carbon, hydrocarbons, fumes or vapors, soot and smoke may be produced.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

| GHS Properties                | Classification                                                                                                                                             |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                | EU/CLP • Data lacking<br>UN GHS • Data lacking                                                                                                             |
| Skin corrosion/Irritation     | EU/CLP • Skin Irritation 2<br>UN GHS • Skin Irritation 2                                                                                                   |
| Serious eye damage/Irritation | EU/CLP • Classification criteria not met<br>UN GHS • Classification criteria not met                                                                       |
| Skin sensitization            | EU/CLP • Classification criteria not met<br>UN GHS • Classification criteria not met                                                                       |
| Respiratory sensitization     | EU/CLP • Data lacking<br>UN GHS • Classification criteria not met                                                                                          |
| Aspiration Hazard             | EU/CLP • Aspiration 1<br>UN GHS • Aspiration 1                                                                                                             |
| Carcinogenicity               | EU/CLP • Classification criteria not met<br>UN GHS • Classification criteria not met                                                                       |
| Germ Cell Mutagenicity        | EU/CLP • Classification criteria not met<br>UN GHS • Classification criteria not met                                                                       |
| Toxicity for Reproduction     | EU/CLP • Classification criteria not met<br>UN GHS • Classification criteria not met                                                                       |
| STOT-SE                       | EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects<br>UN GHS • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects |
| STOT-RE                       | EU/CLP • Classification criteria not met<br>UN GHS • Classification criteria not met                                                                       |

#### Target Organs

- Central Nervous System (CNS)

#### Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

#### Potential Health Effects

##### Inhalation

###### Acute (Immediate)

- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. Intentional concentration and inhalation of vapors of this material may lead to nervous system damage.

###### Chronic (Delayed)

- No data available.

##### Skin

###### Acute (Immediate)

- Causes skin irritation.

###### Chronic (Delayed)

- Repeated and prolonged exposure may cause dermatitis.

##### Eye

###### Acute (Immediate)

- Causes eye irritation.

###### Chronic (Delayed)

- No data available.

##### Ingestion

###### Acute (Immediate)

- Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

###### Chronic (Delayed)

- No data available.

#### Mutagenic Effects

- No effects expected.

#### Carcinogenic Effects

- No effects expected.

**Reproductive Effects**      • No effects expected.

## Section 12 - Ecological Information

### 12.1 Toxicity

- No data available

### 12.2 Persistence and degradability

- No data available

### 12.3 Bioaccumulative potential

- No data available

### 12.4 Mobility in Soil

- No data available

### 12.5 Results of PBT and vPvB assessment

- No chemical safety report required.

### 12.6 Other adverse effects

**Ecological Fate**      • No data available.

### 12.7 Other Information

- No data is available on the adverse effects of this material on the environment. Aquatic toxicity values are expected to be in the range of 1 - 10 mg/l based upon data from components and similar products.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

**Product waste**      • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**      • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

|           | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT       | UN1206         | Heptanes                     | 3                               | II                 | NDA                        |
| TDG       | UN1206         | HEPTANES                     | 3                               | II                 | NDA                        |
| IMO/IMDG  | UN1206         | Heptanes                     | 3                               | II                 | Marine Pollutant           |
| IATA/ICAO | UN1206         | Heptanes                     | 3                               | II                 | NDA                        |

**14.6 Special precautions for user**      • None specified.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**      • This product is provided only in non-bulk containers.

## Section 15 - Regulatory Information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### SARA Hazard Classifications • Acute, Chronic, Fire

| State Right To Know                     |            |     |     |     |
|-----------------------------------------|------------|-----|-----|-----|
| Component                               | CAS        | MA  | NJ  | PA  |
| Heptane                                 | 142-82-5   | Yes | Yes | Yes |
| 3-Methylhexane                          | 589-34-4   | Yes | Yes | Yes |
| Methylcyclohexane                       | 108-87-2   | Yes | Yes | Yes |
| Hexane, 2-methyl-                       | 591-76-4   | Yes | No  | Yes |
| 3-Ethylpentane                          | 617-78-7   | No  | No  | No  |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | No  | No  | No  |
| Toluene                                 | 108-88-3   | Yes | Yes | Yes |
| Benzene                                 | 71-43-2    | Yes | Yes | Yes |
| Ethylbenzene                            | 100-41-4   | Yes | Yes | Yes |

| Inventory                               |            |            |             |           |           |      |
|-----------------------------------------|------------|------------|-------------|-----------|-----------|------|
| Component                               | CAS        | Canada DSL | Canada NDSL | EU EINECS | EU ELNICS | TSCA |
| Heptane                                 | 142-82-5   | Yes        | No          | Yes       | No        | Yes  |
| 3-Methylhexane                          | 589-34-4   | No         | Yes         | Yes       | No        | Yes  |
| Methylcyclohexane                       | 108-87-2   | Yes        | No          | Yes       | No        | Yes  |
| Hexane, 2-methyl-                       | 591-76-4   | Yes        | No          | Yes       | No        | Yes  |
| 3-Ethylpentane                          | 617-78-7   | No         | No          | Yes       | No        | No   |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | Yes        | No          | Yes       | No        | Yes  |
| Toluene                                 | 108-88-3   | Yes        | No          | Yes       | No        | Yes  |
| Benzene                                 | 71-43-2    | Yes        | No          | Yes       | No        | Yes  |
| Ethylbenzene                            | 100-41-4   | Yes        | No          | Yes       | No        | Yes  |

### Canada

#### Labor

##### Canada - WHMIS - Classifications of Substances

|                                           |            |            |              |
|-------------------------------------------|------------|------------|--------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed   |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | B2           |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | B2           |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | B2           |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | B2, D2A, D2B |
| • Heptane                                 | 142-82-5   | 30% TO 45% | B2, D2B      |
| • Toluene                                 | 108-88-3   | < 0.05%    | B2, D2A, D2B |
| • Benzene                                 | 71-43-2    | < 0.001%   | B2, D2A, D2B |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed   |

##### Canada - WHMIS - Ingredient Disclosure List

|                                           |            |           |            |
|-------------------------------------------|------------|-----------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%      | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20% | 1 %        |

|                     |          |            |            |
|---------------------|----------|------------|------------|
| • 3-Methylhexane    | 589-34-4 | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl- | 591-76-4 | 0% TO 15%  | Not Listed |
| • Ethylbenzene      | 100-41-4 | < 0.001%   | 0.1 %      |
| • Heptane           | 142-82-5 | 30% TO 45% | 1 %        |
| • Toluene           | 108-88-3 | < 0.05%    | 1 %        |
| • Benzene           | 71-43-2  | < 0.001%   | 0.1 %      |
| • 3-Ethylpentane    | 617-78-7 | 0% TO 5%   | Not Listed |

## Environment

### Canada - CEPA - Priority Substances List

|                                           |            |            |                                                            |
|-------------------------------------------|------------|------------|------------------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                                 |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                                 |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                                 |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                                 |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed                                                 |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                                 |
| • Toluene                                 | 108-88-3   | < 0.05%    | Priority Substance List 1 (substance not considered toxic) |
| • Benzene                                 | 71-43-2    | < 0.001%   | Priority Substance List 1 (substance considered toxic)     |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                                 |

## Europe

### Other

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

|                                           |            |            |                                                                           |
|-------------------------------------------|------------|------------|---------------------------------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65                                   |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | F; R11 Xi; R38 N; R51 R53 Xn; R65 R67                                     |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | F; R11 Xi; R38 N; R50 R53 Xn; R65 R67                                     |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | F; R11 Xi; R38 N; R50 R53 Xn; R65 R67                                     |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | F; R11 Xn; R20                                                            |
| • Heptane                                 | 142-82-5   | 30% TO 45% | F; R11 Xi; R38 N; R50 R53 Xn; R65 R67                                     |
| • Toluene                                 | 108-88-3   | < 0.05%    | F; R11 Xi; R38 Xn; R48/20 R65 Repr.Cat.3; R63 R67                         |
| • Benzene                                 | 71-43-2    | < 0.001%   | F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25 Xn; R65 |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | F; R11 Xi; R38 N; R50 R53 Xn; R65 R67                                     |

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

|                                           |            |            |                                                      |
|-------------------------------------------|------------|------------|------------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | T R:45-46-65 S:53-45                                 |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | F Xn N R:11-38-51/53-65-67 S:(2)-9-16-33-61-62       |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62 |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62 |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | F Xn R:11-20 S:(2)-16-24/25-29                       |
| • Heptane                                 | 142-82-5   | 30% TO 45% | F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62 |

|                  |          |          |                                                      |
|------------------|----------|----------|------------------------------------------------------|
| • Toluene        | 108-88-3 | < 0.05%  | F Xn R:11-38-48/20-63-65-67 S:(2)-36/37-46-62        |
| • Benzene        | 71-43-2  | < 0.001% | F T R:45-46-11-36/38-48/23/24/25-65 S:53-45          |
| • 3-Ethylpentane | 617-78-7 | 0% TO 5% | F Xn N R:11-38-65-67-50/53 S:(2)-9-16-29-33-60-61-62 |

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | H, P       |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | C          |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | C          |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | C          |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | E          |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | C          |

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**

|                                           |            |            |                           |
|-------------------------------------------|------------|------------|---------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | S:53-45                   |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | S:(2)-9-16-33-61-62       |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | S:(2)-9-16-29-33-60-61-62 |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | S:(2)-9-16-29-33-60-61-62 |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | S:(2)-16-24/25-29         |
| • Heptane                                 | 142-82-5   | 30% TO 45% | S:(2)-9-16-29-33-60-61-62 |
| • Toluene                                 | 108-88-3   | < 0.05%    | S:(2)-36/37-46-62         |
| • Benzene                                 | 71-43-2    | < 0.001%   | S:53-45                   |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | S:(2)-9-16-29-33-60-61-62 |

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

**U.S. - OSHA - Specifically Regulated Chemicals**

|                                           |            |            |                                                                                                         |
|-------------------------------------------|------------|------------|---------------------------------------------------------------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                                                                              |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                                                                              |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                                                                              |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                                                                              |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed                                                                                              |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                                                                              |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed                                                                                              |
| • Benzene                                 | 71-43-2    | < 0.001%   | 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min);<br>0.5 ppm Action Level; 1 ppm TWA |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                                                                              |

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

|                                           |            |            |                                   |
|-------------------------------------------|------------|------------|-----------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                        |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                        |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                        |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                        |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   |                                   |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                        |
| • Toluene                                 | 108-88-3   | < 0.05%    |                                   |
| • Benzene                                 | 71-43-2    | < 0.001%   | (including Benzene from gasoline) |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                        |

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

|                                           |            |            |                                                                                                                                                                                                                                                  |
|-------------------------------------------|------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                                                                                                                                                                                                                       |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                                                                                                                                                                                                                       |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                                                                                                                                                                                                                       |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                                                                                                                                                                                                                       |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | 1000 lb final RQ; 454 kg final RQ                                                                                                                                                                                                                |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                                                                                                                                                                                                                       |
| • Toluene                                 | 108-88-3   | < 0.05%    | 1000 lb final RQ; 454 kg final RQ                                                                                                                                                                                                                |
| • Benzene                                 | 71-43-2    | < 0.001%   | 10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule) |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                                                                                                                                                                                                                       |

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

|                                           |            |           |            |
|-------------------------------------------|------------|-----------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%      | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20% | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30% | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15% | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%  | Not Listed |

|                  |          |            |            |
|------------------|----------|------------|------------|
| • Heptane        | 142-82-5 | 30% TO 45% | Not Listed |
| • Toluene        | 108-88-3 | < 0.05%    | Not Listed |
| • Benzene        | 71-43-2  | < 0.001%   | Not Listed |
| • 3-Ethylpentane | 617-78-7 | 0% TO 5%   | Not Listed |

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

|                                           |            |            |                                |
|-------------------------------------------|------------|------------|--------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                     |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                     |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                     |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                     |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | 0.1 % de minimis concentration |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                     |
| • Toluene                                 | 108-88-3   | < 0.05%    | 1.0 % de minimis concentration |
| • Benzene                                 | 71-43-2    | < 0.001%   | 0.1 % de minimis concentration |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                     |

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

**U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII**

|                                           |            |            |                                                                                                                                                   |
|-------------------------------------------|------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                                                                                                                        |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                                                                                                                        |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                                                                                                                        |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                                                                                                                        |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Included in waste stream: F039                                                                                                                    |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                                                                                                                        |
| • Toluene                                 | 108-88-3   | < 0.05%    | Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151                                                                   |
| • Benzene                                 | 71-43-2    | < 0.001%   | Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172 |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                                                                                                                        |

**U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring**

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   |            |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    |            |
| • Benzene                                 | 71-43-2    | < 0.001%   |            |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

**U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic**

|                                           |            |      |            |
|-------------------------------------------|------------|------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100% | Not Listed |
|-------------------------------------------|------------|------|------------|

|                     |          |            |                           |
|---------------------|----------|------------|---------------------------|
| • Methylcyclohexane | 108-87-2 | 0% TO 20%  | Not Listed                |
| • 3-Methylhexane    | 589-34-4 | 0% TO 30%  | Not Listed                |
| • Hexane, 2-methyl- | 591-76-4 | 0% TO 15%  | Not Listed                |
| • Ethylbenzene      | 100-41-4 | < 0.001%   | Not Listed                |
| • Heptane           | 142-82-5 | 30% TO 45% | Not Listed                |
| • Toluene           | 108-88-3 | < 0.05%    | Not Listed                |
| • Benzene           | 71-43-2  | < 0.001%   | 0.5 mg/L regulatory level |
| • 3-Ethylpentane    | 617-78-7 | 0% TO 5%   | Not Listed                |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - F Series Wastes - Wastes from Nonspecific Sources

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

|                                           |            |            |                   |
|-------------------------------------------|------------|------------|-------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed        |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed        |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed        |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed        |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed        |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed        |
| • Toluene                                 | 108-88-3   | < 0.05%    | waste number U220 |
| • Benzene                                 | 71-43-2    | < 0.001%   | waste number U019 |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed        |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - K Series Wastes - Wastes from Specified Sources

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   |            |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    |            |
| • Benzene                                 | 71-43-2    | < 0.001%   |            |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - P Series Wastes - Acutely Toxic Wastes

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Part 268 Appendix III - Halogenated Organic Compounds (HOCs)

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

|                                           |            |            |                                                   |
|-------------------------------------------|------------|------------|---------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                        |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                        |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                        |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                        |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | 0.057 mg/L (wastewater); 10 mg/kg (nonwastewater) |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                        |
| • Toluene                                 | 108-88-3   | < 0.05%    | 0.080 mg/L (wastewater); 10 mg/kg (nonwastewater) |
| • Benzene                                 | 71-43-2    | < 0.001%   | 0.14 mg/L (wastewater); 10 mg/kg (nonwastewater)  |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                        |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   |            |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    |            |
| • Benzene                                 | 71-43-2    | < 0.001%   |            |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

|                                           |            |            |                                                  |
|-------------------------------------------|------------|------------|--------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                       |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                       |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                       |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                       |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed                                       |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                       |
| • Toluene                                 | 108-88-3   | < 0.05%    | waste number U220                                |
| • Benzene                                 | 71-43-2    | < 0.001%   | waste number U019 (Ignitable waste, Toxic waste) |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                       |

**U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals**

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

|                                           |            |            |                                  |
|-------------------------------------------|------------|------------|----------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                       |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                       |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                       |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                       |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | carcinogen, initial date 6/11/04 |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                       |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed                       |
| • Benzene                                 | 71-43-2    | < 0.001%   | carcinogen, initial date 2/27/87 |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                       |

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

|                                           |            |            |                                               |
|-------------------------------------------|------------|------------|-----------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                    |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                    |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                    |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                    |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed                                    |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                    |
| • Toluene                                 | 108-88-3   | < 0.05%    | developmental toxicity, initial date 1/1/91   |
| • Benzene                                 | 71-43-2    | < 0.001%   | developmental toxicity, initial date 12/26/97 |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                    |

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

|                                           |            |            |                                                    |
|-------------------------------------------|------------|------------|----------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                         |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                         |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                         |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                         |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed                                         |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                         |
| • Toluene                                 | 108-88-3   | < 0.05%    | 7000 µg/day MADL (level represents absorbed dose)  |
| • Benzene                                 | 71-43-2    | < 0.001%   | 24 µg/day MADL (oral); 49 µg/day MADL (inhalation) |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                         |

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

|                                           |            |            |                                                    |
|-------------------------------------------|------------|------------|----------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                         |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                         |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                         |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                         |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | 54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral) |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                         |

|                  |          |          |                                                     |
|------------------|----------|----------|-----------------------------------------------------|
| • Toluene        | 108-88-3 | < 0.05%  | Not Listed                                          |
| • Benzene        | 71-43-2  | < 0.001% | 6.4 µg/day NSRL (oral); 13 µg/day NSRL (inhalation) |
| • 3-Ethylpentane | 617-78-7 | 0% TO 5% | Not Listed                                          |

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

|                                           |            |            |                                                   |
|-------------------------------------------|------------|------------|---------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                        |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                        |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                        |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                        |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed                                        |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                        |
| • Toluene                                 | 108-88-3   | < 0.05%    | female reproductive toxicity, initial date 8/7/09 |
| • Benzene                                 | 71-43-2    | < 0.001%   | Not Listed                                        |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                        |

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

|                                           |            |            |                                                   |
|-------------------------------------------|------------|------------|---------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                        |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed                                        |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                        |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                        |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed                                        |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed                                        |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed                                        |
| • Benzene                                 | 71-43-2    | < 0.001%   | male reproductive toxicity, initial date 12/26/97 |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                        |

**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   |            |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    |            |
| • Benzene                                 | 71-43-2    | < 0.001%   |            |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

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

|                                           |            |            |            |
|-------------------------------------------|------------|------------|------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Not Listed |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Not Listed |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Not Listed |
| • Toluene                                 | 108-88-3   | < 0.05%    | Not Listed |
| • Benzene                                 | 71-43-2    | < 0.001%   |            |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed |

**United States - Rhode Island**

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

|                                           |            |            |                                                   |
|-------------------------------------------|------------|------------|---------------------------------------------------|
| • Naphtha (petroleum), hydrotreated light | 64742-49-0 | 100%       | Not Listed                                        |
| • Methylcyclohexane                       | 108-87-2   | 0% TO 20%  | Toxic                                             |
| • 3-Methylhexane                          | 589-34-4   | 0% TO 30%  | Not Listed                                        |
| • Hexane, 2-methyl-                       | 591-76-4   | 0% TO 15%  | Not Listed                                        |
| • Ethylbenzene                            | 100-41-4   | < 0.001%   | Toxic; Flammable                                  |
| • Heptane                                 | 142-82-5   | 30% TO 45% | Toxic; Flammable                                  |
| • Toluene                                 | 108-88-3   | < 0.05%    | Toxic (skin); Flammable (skin)                    |
| • Benzene                                 | 71-43-2    | < 0.001%   | Toxic (skin); Flammable (skin); Carcinogen (skin) |
| • 3-Ethylpentane                          | 617-78-7   | 0% TO 5%   | Not Listed                                        |

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

**Section 16 - Other Information****Last Revision Date**

- 10/02/2012

**Preparation Date**

- 10/02/2012

**Disclaimer/Statement of Liability**

- The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Key to abbreviations**

NDA = No data available.