

## Per-Fix™ Black for Polypropylene

according to the Hazardous Products Regulations (February 11, 2015)

### SECTION 1 - IDENTIFICATION

#### 1.1 Product Identifier

Product Name : Per-Fix™ Black for Polypropylene  
 Manufacturer Product Number : 7500AAA, 7500AA, 7500A, 7500B, 7500C

#### 1.2 Other Means of Identification

Other Identifiers : Flaw Repair

#### 1.3 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use : Touch-up coating for molded plastic parts.  
 Restrictions on Use : None Identified

#### 1.4 Supplier Details

|              | Manufacturer Details                                   | Supplier Details                                       |
|--------------|--------------------------------------------------------|--------------------------------------------------------|
| Company Name | Chem-Pak Inc                                           | Chem-Pak Inc                                           |
| Address      | 242 Corning Way, Martinsburg, WV 25405 - United States | 242 Corning Way, Martinsburg, WV 25405 - United States |
| Phone Number | 304-262-1880                                           | 304-262-1880                                           |
| Fax Number   | 304-262-9643                                           | 304-262-9643                                           |
| Email        | msds@chem-pak.com                                      |                                                        |
| Website      | http://www.chem-pak.com                                |                                                        |

#### 1.5 24 hr Emergency Phone Number

Emergency Number : ChemTel: 800-255-3924 (North America)

### SECTION 2 - HAZARDS IDENTIFICATION

#### 2.1 Classification of the Substance or Mixture

|                 |      |                       |                                                                        |
|-----------------|------|-----------------------|------------------------------------------------------------------------|
| Flam. Liq. 2    | H225 | Physical Hazards      | Flammable liquids, Category 2                                          |
| Skin Irrit. 2   | H315 | Health Hazards        | Skin corrosion/irritation, Category 2                                  |
| Eye Irrit. 2a   | H319 | Health Hazards        | Serious eye damage/eye irritation, Category 2A                         |
| Muta. 1         | H340 | Health Hazards        | Germ cell mutagenicity, Category 1                                     |
| Carc. 2         | H351 | Health Hazards        | Carcinogenicity, Category 2                                            |
| Repr. 2         | H361 | Health Hazards        | Reproductive toxicity, Category 2                                      |
| Stot Se 3       | H336 | Health Hazards        | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| Stot Re 2       | H373 | Health Hazards        | Specific target organ toxicity — Repeated exposure, Category 2         |
| Asp. Tox. 1     | H304 | Health Hazards        | Aspiration hazard, Category 1                                          |
| Aquatic Acute 3 | H402 | Environmental Hazards | Hazardous to the aquatic environment — Acute Hazard, Category 3        |

#### 2.2 Label Elements

##### Hazard Pictograms



GHS02



GHS07



GHS08

##### Signal Word

**Danger**

##### Hazard Statements

H225 : Highly flammable liquid and vapour.  
 H304 : May be fatal if swallowed and enters airways.  
 H315 : Causes skin irritation.  
 H319 : Causes serious eye irritation.  
 H336 : May cause drowsiness or dizziness.

**Per-Fix™ Black for Polypropylene**
*according to the Hazardous Products Regulations (February 11, 2015)*

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautionary Statements</b> | <p>H340 : May cause genetic defects.</p> <p>H351 : Suspected of causing cancer.</p> <p>H361 : Suspected of damaging fertility or the unborn child.</p> <p>H373 : May cause damage to organs through prolonged or repeated exposure.</p> <p>H402 : Harmful to aquatic life</p><br><p>P202 : Do not handle until all safety precautions have been read and understood.</p> <p>P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 : Keep container tightly closed.</p> <p>P240 : Ground/bond container and receiving equipment.</p> <p>P241 : Use explosion-proof electrical/ventilating/lighting equipment.</p> <p>P242 : Use only non-sparking tools.</p> <p>P243 : Take action to prevent static discharges.</p> <p>P260 : Do not breathe vapor or fumes.</p> <p>P264 : Wash hands thoroughly after handling.</p> <p>P271 : Use only outdoors or in a well-ventilated area.</p> <p>P273 : Avoid release to the environment.</p> <p>P280 : Wear protective gloves and eye protection.</p> <p>P301+P310 : IF SWALLOWED: Immediately call POISON CENTER.</p> <p>P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .</p> <p>P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 : If exposed or concerned: Get medical advice/attention</p> <p>P314 : Get medical advice/attention if you feel unwell.</p> <p>P331 : Do NOT induce vomiting.</p> <p>P332+P313 : If skin irritation occurs: Get medical advice/attention.</p> <p>P337+P313 : If eye irritation persists: Get medical advice/attention.</p> <p>P362+P364 : Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 : In case of fire: Use water, CO<sub>2</sub>, dry chemical or universal aqueous film forming foam to extinguish.</p> <p>P403+P233 : Store in a well-ventilated place. Keep container tightly closed.</p> <p>P235 : Keep cool.</p> <p>P405 : Store locked up.</p> <p>P501 : Dispose of contents/container to applicable regulations</p> |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**2.3 Other Hazards Which Do Not Result In Classification**

Hazards Not Otherwise Classified : None Identified.

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**
**3.1 Substance / Mixture**

Substance / Mixture : Mixture

**3.2 Composition**

| Substance name | CAS Number | % wt*   | Classification                                               |
|----------------|------------|---------|--------------------------------------------------------------|
| Ethyl Acetate  | 141-78-6   | 10 - 30 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |
| Methyl Acetate | 79-20-9    | 10 - 30 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |

**Per-Fix™ Black for Polypropylene**
*according to the Hazardous Products Regulations (February 11, 2015)*

| Substance name                               | CAS Number | % wt*   | Classification                                                                                                                                                                    |
|----------------------------------------------|------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Xylene                                       | 1330-20-7  | 10 - 30 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401                         |
| Solvent Naphtha (Petroleum), Light Aliphatic | 64742-89-8 | 10 - 30 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304                                                                                                 |
| Isopropyl Acetate                            | 108-21-4   | 5 - 10  | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336                                                                                                                      |
| Toluene                                      | 108-88-3   | 5 - 10  | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401                                    |
| Ethylbenzene                                 | 100-41-4   | 2.3464  | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Carc. 2, H351<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401 |
| 2-(2-Butoxyethoxy)Ethanol                    | 112-34-5   | 1 - 5   | Eye Irrit. 2A, H319                                                                                                                                                               |
| Light Aromatic Solvent Naphtha               | 64742-95-6 | 0.1 - 1 | Flam. Liq. 3, H226<br>Muta. 1B, H340<br>Carc. 1B, H350<br>Asp. Tox. 1, H304<br>Aquatic Acute 3, H402                                                                              |

*Full text of hazard classes and H-statements : see section 16*
*\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret*

## SECTION 4 - FIRST-AID MEASURES

**4.1 Description of First-Aid Measures**

- |                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Measures</b>               | : Call a physician immediately.                                                                                                                                                  |
| <b>Inhalation</b>                     | : Remove person to fresh air and keep comfortable for breathing.                                                                                                                 |
| <b>Skin Contact</b>                   | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.                                         |
| <b>Eye Contact</b>                    | : 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. |
| <b>Ingestion</b>                      | : Do not induce vomiting. Call a physician immediately.                                                                                                                          |
| <b>First-Aid Responder Protection</b> | : Wear adequate personal protective equipment based on the nature and severity of the emergency.                                                                                 |

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

- |                             |                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms of Exposure</b> | : Eye Irritation, Nose Irritation, Throat Irritation, Dermatitis, Central Nervous System Depression, Confusion, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Optical Nerve Damage, Cough, Blurred Vision, Chest Tightness, Mucous Membrane, Diarrhea. |
| <b>Delayed Effects</b>      | : No known delayed effects.                                                                                                                                                                                                                                                                                                |
| <b>Immediate Effects</b>    | : No known immediate effects.                                                                                                                                                                                                                                                                                              |
| <b>Chronic Effects</b>      | : Repeated or prolonged contact may cause skin sensitization.                                                                                                                                                                                                                                                              |
| <b>Target Organs</b>        | : Central Nervous System, Eyes, Liver, Nasal Cavity, Reproductive System, Respiratory System, Skin, Kidneys.                                                                                                                                                                                                               |

## Per-Fix™ Black for Polypropylene

according to the Hazardous Products Regulations (February 11, 2015)

### 4.3 Indication of Immediate Medical Attention and Special Treatment

|                               |                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------|
| Notes to Physician            | : Treat symptomatically.                                                                        |
| Specific Treatments/Antidotes | : No Information Available.                                                                     |
| Medical Conditions Aggravated | : May aggravate personnel with pre-existing disorders associated with any of the Target Organs. |

## SECTION 5 - FIRE-FIGHTING MEASURES

### 5.1 Suitable Extinguishing Media

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Extinguishing Media | : Water, carbon dioxide, dry chemical, universal aqueous film forming foam. |
| Unsuitable Media    | : Water jet.                                                                |

### 5.2 Specific Hazards Arising from the Chemical or Mixture

|                                      |                                                                                                                                                                                                                    |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous Combustion Products        | : Decomposition products may include: oxides of carbon, smoke, vapours. See also Section 10.6.                                                                                                                     |
| Specific Hazards During Firefighting | : CONTENTS HIGHLY FLAMMABLE. In a fire or if heated, a pressure increase will occur which may result in container bursting. Vapours heavier than air may spread along the ground and travel to an ignition source. |

### 5.3 Special Protective Actions for Fire-Fighters

|                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Firefighting Instructions      | : Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed pressure. |
| Protection during Firefighting | : Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.  |

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

|                             |                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For Non-Emergency Personnel | : No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so. |
| For Emergency Personnel     | : Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.                                                                                                                                                                         |

### 6.2 Environmental Precautions

|                           |                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|
| Environmental Precautions | : Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination. |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|

### 6.3 Methods and Materials for Containment and Cleaning up

|                        |                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Containment Procedures | : Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.                                                                                                                                                                                                                                                                           |
| Cleanup Procedures     | : Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal. |
| Other Information      | : The North American Emergency Response Guidebook or similar resources providing emergency response information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.                                                                                                                                                                       |
| Prohibited Materials   | : Combustible absorbent material such as sawdust. Use of equipment that may cause sparking.                                                                                                                                                                                                                                                                              |

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

|                              |                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Handling Precautions | : KEEP OUT OF THE REACH OF CHILDREN. Avoid use around open flames or other sources of ignition.                                                                                       |
| Hygiene Recommendations      | : Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas. |

### 7.2 Conditions for Safe Storage Including Any Incompatibilities

|                      |                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage Requirements | : Storage of individual cans should be done in an area below 55°C (120 °F), and away from heat sources. Keep containers closed when not in use. Do not store in open or unlabelled containers. |
| Incompatibilities    | : Segregate storage away from materials indicated in Section 10.                                                                                                                               |

## Per-Fix™ Black for Polypropylene

according to the Hazardous Products Regulations (February 11, 2015)

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control Parameters

##### Xylene (1330-20-7)

|                           |                                                         |                       |
|---------------------------|---------------------------------------------------------|-----------------------|
| Canada (Alberta)          | OEL TWA (ppm)                                           | 100 ppm               |
| Canada (Alberta)          | OEL TWA (mg/m <sup>3</sup> )                            | 434 mg/m <sup>3</sup> |
| Canada (British Columbia) | OEL TWA (ppm)                                           | 100 ppm               |
| Canada (British Columbia) | OEL STEL (ppm)                                          | 150 ppm               |
| Canada (Ontario)          | OEL TWA (ppm)                                           | 100 ppm               |
| Canada (Ontario)          | OEL STEL (ppm)                                          | 150 ppm               |
| USA (ACGIH)               | ACGIH TWA (mg/m <sup>3</sup> )                          | 100 ppm               |
| USA (ACGIH)               | ACGIH Ceiling (mg/m <sup>3</sup> )                      | 150 ppm               |
| Biological Exposure Index | Methylhippuric Acid in Urine (Post Shift), End of shift | 1.5 g/g creatinine    |

##### Ethylbenzene (100-41-4)

|                           |                                                                                          |                       |
|---------------------------|------------------------------------------------------------------------------------------|-----------------------|
| Canada (Alberta)          | OEL TWA (ppm)                                                                            | 100 ppm               |
| Canada (Alberta)          | OEL TWA (mg/m <sup>3</sup> )                                                             | 434 mg/m <sup>3</sup> |
| Canada (Alberta)          | OEL Ceiling (ppm)                                                                        | 125 ppm               |
| Canada (Alberta)          | OEL Ceiling (mg/m <sup>3</sup> )                                                         | 543 mg/m <sup>3</sup> |
| Canada (British Columbia) | OEL TWA (ppm)                                                                            | 20 ppm                |
| Canada (Ontario)          | OEL TWA (ppm)                                                                            | 20 ppm                |
| Canada (Quebec)           | VECD (ppm)                                                                               | 125 ppm               |
| Canada (Quebec)           | VECD (mg/m <sup>3</sup> )                                                                | 543 mg/m <sup>3</sup> |
| Canada (Quebec)           | VEMP (ppm)                                                                               | 100 ppm               |
| Canada (Quebec)           | VEMP (mg/m <sup>3</sup> )                                                                | 434 mg/m <sup>3</sup> |
| USA (ACGIH)               | ACGIH TWA (mg/m <sup>3</sup> )                                                           | 20 ppm                |
| Biological Exposure Index | Sum of Mandelic Acid and Phenyl Glyoxylic Acid in Urine, End of shift at end of workweek | 0.7 g/g creatinine    |

##### Toluene (108-88-3)

|                           |                                                       |                       |
|---------------------------|-------------------------------------------------------|-----------------------|
| Canada (Alberta)          | OEL TWA (ppm)                                         | 50 ppm                |
| Canada (Alberta)          | OEL TWA (mg/m <sup>3</sup> )                          | 188 mg/m <sup>3</sup> |
| Canada (British Columbia) | OEL TWA (ppm)                                         | 20 ppm                |
| Canada (Ontario)          | OEL TWA (ppm)                                         | 20 ppm                |
| Canada (Quebec)           | VEMP (ppm)                                            | 50 ppm                |
| Canada (Quebec)           | VEMP (mg/m <sup>3</sup> )                             | 188 mg/m <sup>3</sup> |
| USA (ACGIH)               | ACGIH TWA (mg/m <sup>3</sup> )                        | 20 ppm                |
| USA (ACGIH)               | ACGIH Ceiling (mg/m <sup>3</sup> )                    | 150 ppm               |
| Biological Exposure Index | Toluene in blood, Prior to last shift of workweek     | 0.02 mg/l             |
| Biological Exposure Index | Toluene in urine, End of shift                        | 0.03 mg/l             |
| Biological Exposure Index | o-Cresol in urine (with hydrolysis), End of shift (B) | 0.3 mg/g creatinine   |

##### Ethyl Acetate (141-78-6)

|                           |                                |                        |
|---------------------------|--------------------------------|------------------------|
| Canada (Alberta)          | OEL TWA (ppm)                  | 400 ppm                |
| Canada (Alberta)          | OEL TWA (mg/m <sup>3</sup> )   | 1440 mg/m <sup>3</sup> |
| Canada (British Columbia) | OEL TWA (ppm)                  | 150 ppm                |
| Canada (Ontario)          | OEL TWA (ppm)                  | 400 ppm                |
| Canada (Quebec)           | VEMP (ppm)                     | 400 ppm                |
| Canada (Quebec)           | VEMP (mg/m <sup>3</sup> )      | 1440 mg/m <sup>3</sup> |
| USA (ACGIH)               | ACGIH TWA (mg/m <sup>3</sup> ) | 400 ppm                |

##### 2-(2-Butoxyethoxy)Ethanol (112-34-5)

|                  |                                |        |
|------------------|--------------------------------|--------|
| Canada (Ontario) | OEL TWA (ppm)                  | 10 ppm |
| USA (ACGIH)      | ACGIH TWA (mg/m <sup>3</sup> ) | 10 ppm |

##### Methyl Acetate (79-20-9)

|                           |                               |                       |
|---------------------------|-------------------------------|-----------------------|
| Canada (Alberta)          | OEL TWA (ppm)                 | 200 ppm               |
| Canada (Alberta)          | OEL TWA (mg/m <sup>3</sup> )  | 600 mg/m <sup>3</sup> |
| Canada (Alberta)          | OEL STEL (ppm)                | 250 ppm               |
| Canada (Alberta)          | OEL STEL (mg/m <sup>3</sup> ) | 757 mg/m <sup>3</sup> |
| Canada (British Columbia) | OEL TWA (ppm)                 | 200 ppm               |
| Canada (British Columbia) | OEL STEL (ppm)                | 250 ppm               |

## Per-Fix™ Black for Polypropylene

according to the Hazardous Products Regulations (February 11, 2015)

### Methyl Acetate (79-20-9)

|                  |                                    |                       |
|------------------|------------------------------------|-----------------------|
| Canada (Ontario) | OEL TWA (ppm)                      | 200 ppm               |
| Canada (Ontario) | OEL STEL (ppm)                     | 250 ppm               |
| Canada (Quebec)  | VECD (ppm)                         | 250 ppm               |
| Canada (Quebec)  | VECD (mg/m <sup>3</sup> )          | 757 mg/m <sup>3</sup> |
| Canada (Quebec)  | VEMP (ppm)                         | 200 ppm               |
| Canada (Quebec)  | VEMP (mg/m <sup>3</sup> )          | 606 mg/m <sup>3</sup> |
| USA (ACGIH)      | ACGIH TWA (mg/m <sup>3</sup> )     | 200 ppm               |
| USA (ACGIH)      | ACGIH Ceiling (mg/m <sup>3</sup> ) | 250 ppm               |

### Isopropyl Acetate (108-21-4)

|                           |                                    |                        |
|---------------------------|------------------------------------|------------------------|
| Canada (Alberta)          | OEL TWA (ppm)                      | 100 ppm                |
| Canada (Alberta)          | OEL TWA (mg/m <sup>3</sup> )       | 416 mg/m <sup>3</sup>  |
| Canada (Alberta)          | OEL STEL (ppm)                     | 200 ppm                |
| Canada (Alberta)          | OEL STEL (mg/m <sup>3</sup> )      | 832 mg/m <sup>3</sup>  |
| Canada (British Columbia) | OEL TWA (ppm)                      | 100 ppm                |
| Canada (British Columbia) | OEL STEL (ppm)                     | 200 ppm                |
| Canada (Ontario)          | OEL TWA (ppm)                      | 100 ppm                |
| Canada (Ontario)          | OEL STEL (ppm)                     | 200 ppm                |
| Canada (Quebec)           | VECD (ppm)                         | 310 ppm                |
| Canada (Quebec)           | VECD (mg/m <sup>3</sup> )          | 1290 mg/m <sup>3</sup> |
| Canada (Quebec)           | VEMP (ppm)                         | 250 ppm                |
| Canada (Quebec)           | VEMP (mg/m <sup>3</sup> )          | 1040 mg/m <sup>3</sup> |
| USA (ACGIH)               | ACGIH TWA (mg/m <sup>3</sup> )     | 100 ppm                |
| USA (ACGIH)               | ACGIH Ceiling (mg/m <sup>3</sup> ) | 200 ppm                |

## 8.2 Exposure Controls

|                                        |                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Measures</b>            | : Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above. |
| <b>Personal Protective Equipment</b>   |                                                                                                                                                                                                                                                                                                                            |
| <b>Eye / Face Protection</b>           | : Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.                                                                                                             |
| <b>Hand Protection</b>                 | : Chemical-resistant gloves, tested according to EN 374.                                                                                                                                                                                                                                                                   |
| <b>Remarks</b>                         | : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.                                                                                                                                                               |
| <b>Skin and Body Protection</b>        | : For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.                                                                                                   |
| <b>Respiratory Protection</b>          | : An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits.                                                                                                                                 |
| <b>Compliance</b>                      | : If needed, wear an appropriate NIOSH approved respirator.                                                                                                                                                                                                                                                                |
| <b>Other Protective Equipment</b>      | : Safety showers and eye-wash stations should be available in the workplace near where the material will be used.                                                                                                                                                                                                          |
| <b>Environmental Exposure Controls</b> | : Avoid release to the environment.                                                                                                                                                                                                                                                                                        |

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Physical Properties

|                     |                            |                                  |                         |
|---------------------|----------------------------|----------------------------------|-------------------------|
| Boiling Point       | > 56.90 °C                 | Melting / Freezing Point         | > -108.40 °C            |
| Flash Point, Liquid | > -20.00 °C                |                                  |                         |
| Explosive Limits    | LEL: 0.80 UEL: 40.00 vol % | Autoignition Temperature, Liquid | > 190.00 °C             |
| Flammability        | Highly Flammable Liquid    | Density                          | 0.866 g/cm <sup>3</sup> |
| Molecular Weight    | Not Available              | Weight                           | 7.227 lbs/gal           |
| Vapor Pressure      | Not Available              | pH                               | Not Available           |
| Vapor Density       | Not Available              | Evaporation Rate (nBac=1)        | Not Available           |
| Viscosity           | Not Available              | Partition Coefficient (Log Pow)  | Not Available           |
| Odor Threshold      | Not Available              | Refractive Index                 | Not Available           |
| Physical State      | Liquid                     | Heat Of Combustion               | Not Available           |



# SAFETY DATA SHEET

Part No. 7500 (Liquid)

Print Date: 08/10/2019  
Revision Date: 10/8/2019  
Supersedes Date: 10/8/2019  
Issue Date: 10/8/2019  
Version: 1.0 (EN)-CA  
Page: 7/11

## Per-Fix™ Black for Polypropylene

according to the Hazardous Products Regulations (February 11, 2015)

|                    |            |                           |               |
|--------------------|------------|---------------------------|---------------|
| Appearance / Color | Black      | Water Solubility          | Not Available |
| Odor               | Paint-like | Decomposition Temperature | Not Available |

### 9.2 Environmental Properties

|                           |            |                                |                           |
|---------------------------|------------|--------------------------------|---------------------------|
| Percent Volatile          | 87.41 % wt | VOC Regulatory                 | 742.89 g/L (6.20 lbs/gal) |
| Percent VOC               | 66.86 % wt | VOC Actual                     | 578.99 g/L (4.83 lbs/gal) |
| Percent HAP               | 25.94 % wt | HAP Content                    | 224.64 g/L (1.87 lbs/gal) |
| Global Warming Potential  | 0.14 GWP   | Maximum Incremental Reactivity | 2.1940 g O3/g             |
| Ozone Depletion Potential | 0.00 ODP   |                                |                           |

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

Reactivity : No specific test data related to reactivity is available for this products or its ingredients.

### 10.2 Chemical Stability

Chemical Stability : This product is stable.

### 10.3 Possibility of Hazardous Reactions

Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions are not expected to occur.

### 10.4 Conditions to Avoid

Conditions to Avoid : Electrostatic Discharge, Other Ignition Sources, Hot Surfaces, Heat, Flames, Sparks, Strong Heating.

### 10.5 Incompatible Materials

Materials to Avoid : Strong Oxidizing Agents, Strong Reducing Agents, Alkali Metals, Strong Acids, Aluminum, Potassium t-Butoxide, Halogen Compounds, Bases, Acid Anhydrides, Calcium Hypochlorite, Aluminum Chloride, Acids, Magnesium, Sulfuric Acid, Perchloric Acid, Chromium Trioxide, Nitrating Agents, Chlorosulfuric Acid, Potassium Chlorate, Heavy Metals and their Salts, Phenols, Performic Acid.

### 10.6 Hazardous Decomposition Products

Thermal Decomposition : Oxides of carbon, Aldehydes, Methanol, Acetic Acid, Peroxybenzoic Acid, Benzoic Acid.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

#### Xylene (CAS: 1330-20-7 / EC: 215-535-7)

|                       |                                          |
|-----------------------|------------------------------------------|
| LD50 Oral (Rat)       | 4300 mg/kg (RTECS)                       |
| LD50 Dermal (Rabbit)  | 12126 mg/kg (Sigma-Aldrich)              |
| LC50 Inhalation (Rat) | 21.7 mg/l/4h (GESTIS Substance Database) |
| LC50 Inhalation (Rat) | 6700 ppm/4h (ChemInfo)                   |

#### Ethylbenzene (CAS: 100-41-4 / EC: 202-849-4)

|                       |                        |
|-----------------------|------------------------|
| LD50 Oral (Rat)       | 4720 mg/kg (ChemInfo)  |
| LD50 Dermal (Rabbit)  | 15380 mg/kg (ChemInfo) |
| LC50 Inhalation (Rat) | 17.2 mg/l/4h (IUCLID)  |
| LC50 Inhalation (Rat) | 4000 ppm/4h (ChemInfo) |

#### Toluene (CAS: 108-88-3 / EC: 203-625-9)

|                       |                      |
|-----------------------|----------------------|
| LD50 Oral (Rat)       | > 2000 mg/kg (Lit.)  |
| LD50 Dermal (Rabbit)  | 12124 mg/kg (IUCLID) |
| LC50 Inhalation (Rat) | > 20 mg/l/4h (Lit.)  |

#### Light Aromatic Solvent Naphtha (CAS: 64742-95-6 / EC: 265-199-0)

|                      |                         |
|----------------------|-------------------------|
| LD50 Oral (Rat)      | 8400 mg/kg (RTECS)      |
| LD50 Dermal (Rabbit) | > 3160 mg/kg (ChemInfo) |



## Per-Fix™ Black for Polypropylene

according to the Hazardous Products Regulations (February 11, 2015)

**Light Aromatic Solvent Naphtha (CAS: 64742-95-6 / EC: 265-199-0)**

LC50 Inhalation (Rat) 3670 ppm/4h (Lit.)

**Solvent Naphtha (Petroleum), Light Aliphatic (CAS: 64742-89-8 / EC: 265-192-2)**

LD50 Oral (Rat) &gt; 5000 mg/kg (External SDS)

LD50 Dermal (Rabbit) &gt; 2000 mg/kg (External SDS)

LC50 Inhalation (Rat) &gt; 20 mg/l/4h (External SDS)

**Ethyl Acetate (CAS: 141-78-6 / EC: 205-500-4)**

LD50 Oral (Rat) 5620 mg/kg (RTECS)

LD50 Dermal (Rabbit) &gt; 18000 mg/kg (Sigma-Aldrich)

LC50 Inhalation (Rat) 10600 ppm/4h (ChemInfo)

**2-(2-Butoxyethoxy)Ethanol (CAS: 112-34-5 / EC: 203-961-6)**

LD50 Oral (Rat) 5660 mg/kg (RTECS)

LD50 Dermal (Rabbit) 4120 mg/kg (IUCLID)

**Methyl Acetate (CAS: 79-20-9 / EC: 201-185-2)**

LD50 Oral (Rat) 6970 mg/kg (Lit.)

LD50 Dermal (Rabbit) &gt; 5000 mg/kg (RTECS)

LC50 Inhalation (Rat) &gt; 49.28 mg/l/4h (External SDS)

LC50 Inhalation (Rat) 16000 - 32000 (ChemInfo)

**Isopropyl Acetate (CAS: 108-21-4 / EC: 203-561-1)**

LD50 Oral (Rat) 6750 mg/kg (RTECS)

LD50 Dermal (Rabbit) &gt; 17490 mg/kg (Lit.)

LC50 Inhalation (Rat) 50.6 mg/l/4h (ChemInfo)

LC50 Inhalation (Rat) 17100 ppm/4h (ChemInfo)

**Routes Of Exposure** : Eye Contact, Ingestion, Skin Contact, Inhalation, Skin Absorption.

**Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure** : See Section 4.2

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

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

**Respiratory or Skin Sensitization** : Not classified

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

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

**STOT-Single Exposure** : May cause drowsiness or dizziness.

**STOT-Repeated Exposure** : May cause damage to organs through prolonged or repeated exposure.

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

**Carcinogen Data** : The following ingredients are listed as known or suspected carcinogens:

**Ethylbenzene (CAS: 100-41-4 / EC: 202-849-4)**

IARC group 2B - Possibly carcinogenic to humans

ACGIH Category A3 - Confirmed animal carcinogen with unknown relevance to humans

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity and Ecological Properties

**Xylene (1330-20-7)**

LC50 Fish 26.7 mg/l Fathead Minnow - 96h

EC50 Daphnia 75.49 mg/l Water Flea - 48hr

EC50 Other Aquatic Organisms 72 mg/l Green Algae - 14d

Persistence and Degradability Readily biodegradable in water.

 Biochemical Oxygen Demand 1.40 - 2.53 g O<sub>2</sub>/g substance

 Chemical Oxygen Demand 2.56 - 2.91 g O<sub>2</sub>/g substance

 Theoretical Oxygen Demand 3.1 g O<sub>2</sub>/g substance

BCF Fish 14.1 - 24 (BCF)

Log Pow 3.217



## Per-Fix™ Black for Polypropylene

according to the Hazardous Products Regulations (February 11, 2015)

### Xylene (1330-20-7)

|                           |                                                |
|---------------------------|------------------------------------------------|
| Bioaccumulative Potential | Low potential for bioaccumulation (BCF < 500). |
| Log Koc                   | 3.156                                          |

### Ethylbenzene (100-41-4)

|                               |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| LC50 Fish                     | 4.2 mg/l Rainbow Trout - 96hr                                                                    |
| EC50 Daphnia                  | 2.4 mg/l Water Flea - 48hr                                                                       |
| EC50 Other Aquatic Organisms  | 9.68 mg/l Bacteria - 30min                                                                       |
| EC50 Other Aquatic Organisms  | 4.6 mg/l Green Algae - 72hr                                                                      |
| Persistence and Degradability | Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil. |
| Biochemical Oxygen Demand     | 1.44 g O <sub>2</sub> /g substance                                                               |
| Chemical Oxygen Demand        | 2.1 g O <sub>2</sub> /g substance                                                                |
| Theoretical Oxygen Demand     | 3.17 g O <sub>2</sub> /g substance                                                               |
| Biodegradation                | 81 % 28 Days                                                                                     |
| BCF Fish                      | 1.18                                                                                             |
| Log Pow                       | 3.15                                                                                             |
| Bioaccumulative Potential     | Low potential for bioaccumulation (BCF < 500).                                                   |
| Log Koc                       | 2.4                                                                                              |

### Toluene (108-88-3)

|                               |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| LC50 Fish                     | 5.8 mg/l Rainbow Trout - 96hr                                                                    |
| LC50 Other Aquatic Organisms  | 10 mg/l Green Algae - 72hr                                                                       |
| EC50 Daphnia                  | 6 mg/l Water Flea - 48hr                                                                         |
| Persistence and Degradability | Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil. |
| Biochemical Oxygen Demand     | 2.15 g O <sub>2</sub> /g substance                                                               |
| Chemical Oxygen Demand        | 2.52 g O <sub>2</sub> /g substance                                                               |
| Theoretical Oxygen Demand     | 3.13 g O <sub>2</sub> /g substance                                                               |
| Biodegradation                | 86 % 28 Days                                                                                     |
| Log Pow                       | 2.73 (Experimental Value)                                                                        |
| Bioaccumulative Potential     | Low potential for bioaccumulation (BCF < 500).                                                   |
| Log Koc                       | 2.15                                                                                             |

### Light Aromatic Solvent Naphtha (64742-95-6)

|                               |                                 |
|-------------------------------|---------------------------------|
| LC50 Fish                     | 18 mg/l (LC50)                  |
| EC50 Daphnia                  | 21 mg/l (EC50)                  |
| Persistence and Degradability | Readily biodegradable in water. |
| Log Pow                       | > 3                             |

### Solvent Naphtha (Petroleum), Light Aliphatic (64742-89-8)

|                               |                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------|
| Persistence and Degradability | Expected to be readily biodegradable. Oxidises rapidly by photo-chemical reactions in air. |
| Biodegradation                | 95 % 28 Days                                                                               |
| Log Kow                       | 2.1                                                                                        |
| Bioaccumulative Potential     | Low potential for bioaccumulation (Log Kow < 4).                                           |

### Ethyl Acetate (141-78-6)

|                               |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| LC50 Fish                     | 450 - 600 mg/l Rainbow Trout - 96hr                                                              |
| LC50 Fish                     | 220 - 250 mg/l Fathead Minnow - 96h                                                              |
| LC50 Other Aquatic Organisms  | 560 mg/l Water Flea - 48hr                                                                       |
| EC50 Daphnia                  | 2300 - 3090 mg/l Water Flea - 24hr                                                               |
| EC50 Other Aquatic Organisms  | 4300 mg/l Green Algae - 24hr                                                                     |
| Persistence and Degradability | Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. |
| Biochemical Oxygen Demand     | 0.293 g O <sub>2</sub> /g substance                                                              |
| Chemical Oxygen Demand        | 1.69 g O <sub>2</sub> /g substance                                                               |
| Theoretical Oxygen Demand     | 1.82 g O <sub>2</sub> /g substance                                                               |
| Biodegradation                | 100 % 28 Days                                                                                    |
| BCF Fish                      | 30                                                                                               |
| Log Pow                       | 0.73                                                                                             |
| Bioaccumulative Potential     | Low potential for bioaccumulation (BCF < 500).                                                   |
| Log Koc                       | 0.778                                                                                            |

### 2-(2-Butoxyethoxy)Ethanol (112-34-5)

|              |                                  |
|--------------|----------------------------------|
| LC50 Fish    | 1300 mg/l Bluegill Sunfish - 96h |
| EC50 Daphnia | > 100 mg/l Water Flea - 48hr     |



# SAFETY DATA SHEET

Part No. 7500 (Liquid)

Print Date: 08/10/2019  
 Revision Date: 10/8/2019  
 Supersedes Date: 10/8/2019  
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 Version: 1.0 (EN)-CA  
 Page: 10/11

## Per-Fix™ Black for Polypropylene

according to the Hazardous Products Regulations (February 11, 2015)

### 2-(2-Butoxyethoxy)Ethanol (112-34-5)

|                               |                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| EC50 Other Aquatic Organisms  | > 100 mg/l Green Algae - 96hr                                                                                                                 |
| Persistence and Degradability | Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available. Photodegradation in the air. |
| Biochemical Oxygen Demand     | 0.25 g O <sub>2</sub> /g substance                                                                                                            |
| Chemical Oxygen Demand        | 2.08 g O <sub>2</sub> /g substance                                                                                                            |
| Theoretical Oxygen Demand     | 2.173 g O <sub>2</sub> /g substance                                                                                                           |
| Biodegradation                | 58 % 28 Days                                                                                                                                  |
| BCF Fish                      | 0.46 (BCF)                                                                                                                                    |
| Log Pow                       | 0.56 (Experimental Value)                                                                                                                     |
| Bioaccumulative Potential     | Low potential for bioaccumulation (Log Kow < 4).                                                                                              |
| Log Koc                       | 1                                                                                                                                             |

### Methyl Acetate (79-20-9)

|                               |                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------|
| LC50 Fish                     | 250 - 350 mg/l Zebra Fish - 96hr                                                 |
| EC50 Daphnia                  | 1026.7 mg/l Water Flea - 48hr                                                    |
| EC50 Other Aquatic Organisms  | > 120 mg/l Green Algae - 72hr                                                    |
| EC50 Other Aquatic Organisms  | 6100 mg/l Bacteria - 30min                                                       |
| Persistence and Degradability | Readily biodegradable in water. Inherently biodegradable. Highly mobile in soil. |
| Chemical Oxygen Demand        | 1511.8 mg/g                                                                      |
| Theoretical Oxygen Demand     | 1510 mg/g                                                                        |
| Biodegradation                | 70 % 28 Days                                                                     |
| BCF Fish                      | < 1 (BCF)                                                                        |
| Log Pow                       | 0.18                                                                             |
| Bioaccumulative Potential     | Low potential for bioaccumulation (BCF < 500).                                   |
| Log Koc                       | 0.68                                                                             |

### Isopropyl Acetate (108-21-4)

|                               |                                                |
|-------------------------------|------------------------------------------------|
| LC50 Fish                     | 265 mg/l Golden Orfe - 96hr                    |
| EC50 Daphnia                  | 4150 mg/l Water Flea - 24hr                    |
| Persistence and Degradability | Readily biodegradable in water.                |
| Biochemical Oxygen Demand     | 0.26 g O <sub>2</sub> /g substance             |
| Chemical Oxygen Demand        | 1.67 g O <sub>2</sub> /g substance             |
| Theoretical Oxygen Demand     | 2.04 g O <sub>2</sub> /g substance             |
| BCF Fish                      | 1.8 (BCF)                                      |
| Log Pow                       | 0.98 - 1.3                                     |
| Bioaccumulative Potential     | Low potential for bioaccumulation (BCF < 500). |

## SECTION 13 - DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods




|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste Disposal              | : Product is suitable for burning in an enclosed, controlled burner for fuel value. Hazard characteristics and regulatory waste stream classification can change with product use and location. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste material must be disposed of in compliance with the respective national, federal, state, and/or local regulations. |
| Waste Disposal Of Packaging | : Consult with your local landfill to determine if empty small containers can be disposed of along with regular trash pickup. For disposal of large containers (typically 10 gallons or larger), or for containers not suitable for landfill, a licensed reconditioner should be used.                                                                                                                                                                                                                                                |
| Landfill Precautions        | : Not Available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Incineration Precautions    | : Not Available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## SECTION 14 - TRANSPORTATION INFORMATION

| 14.1 UN Number               | TDG (CANADA) | IATA (AIR) | IMDG (OCEAN) |
|------------------------------|--------------|------------|--------------|
| UN Number                    | : UN1263     | UN1263     | UN1263       |
| 14.2 UN Proper Shipping Name | TDG (CANADA) | IATA (AIR) | IMDG (OCEAN) |
| UN Proper Shipping Name      | : Paint      | Paint      | Paint        |

## Per-Fix™ Black for Polypropylene

*according to the Hazardous Products Regulations (February 11, 2015)*

| 14.3 Transport Hazard Class(es) | TDG (CANADA)                                                                      | IATA (AIR)                                                                          | IMDG (OCEAN)                                                                        |
|---------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Transport Hazard Class(es) :    | 3                                                                                 | 3                                                                                   | 3                                                                                   |
| Labels :                        | 3 - Flammable liquid                                                              | 3 - Flammable liquid                                                                | 3 - Flammable liquid                                                                |
|                                 |  |  |  |
| EmS Code :                      | Not Applicable                                                                    | Not Applicable                                                                      | F-E, S-E                                                                            |

| 14.4 Packing Group | TDG (CANADA) | IATA (AIR) | IMDG (OCEAN) |
|--------------------|--------------|------------|--------------|
| Packing Group :    | II           | II         | II           |

| 14.5 Environmental Hazards | TDG (CANADA) | IATA (AIR) | IMDG (OCEAN) |
|----------------------------|--------------|------------|--------------|
| Marine Pollutant :         | No           | No         | No           |

| 14.6 Special Precautions |                 |
|--------------------------|-----------------|
| Precautions :            | None Identified |

| 14.7 Transport in Bulk |                                        |
|------------------------|----------------------------------------|
| Remarks :              | Not applicable for product as supplied |

## SECTION 15 - REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations Specific to the Product

- TSCA Inventory (United States)** : All chemical substances in this product are either listed on the Toxic Substances Control Act (TSCA) Inventory or are in compliance with a TSCA Inventory exemption.
- DSL/NDL Inventory (Canada)** : All chemical substances in this product are listed on the Domestic Substance List (DSL), exempt or are not subject to notification.

## SECTION 16 - OTHER INFORMATION

| Indication of changes | Section | Changed item                           | Change |
|-----------------------|---------|----------------------------------------|--------|
|                       | 1       | Created Safety Data Sheet – Revision 1 | Added  |

| Full Text of H-Statements | H Code | H Phrase                                                                   |
|---------------------------|--------|----------------------------------------------------------------------------|
|                           | H225   | Highly flammable liquid and vapour.                                        |
|                           | H226   | Flammable liquid and vapour.                                               |
|                           | H227   | Combustible liquid                                                         |
|                           | H302   | Harmful if swallowed.                                                      |
|                           | H304   | May be fatal if swallowed and enters airways.                              |
|                           | H312   | Harmful in contact with skin.                                              |
|                           | H315   | Causes skin irritation.                                                    |
|                           | H317   | May cause an allergic skin reaction.                                       |
|                           | H319   | Causes serious eye irritation.                                             |
|                           | H332   | Harmful if inhaled.                                                        |
|                           | H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
|                           | H335   | May cause respiratory irritation.                                          |
|                           | H336   | May cause drowsiness or dizziness.                                         |
|                           | H340   | May cause genetic defects.                                                 |
|                           | H351   | Suspected of causing cancer.                                               |
|                           | H361   | Suspected of damaging fertility or the unborn child.                       |
|                           | H373   | May cause damage to organs through prolonged or repeated exposure.         |
|                           | H400   | Very toxic to aquatic life.                                                |
|                           | H401   | Toxic to aquatic life                                                      |
|                           | H402   | Harmful to aquatic life                                                    |
|                           | H411   | Toxic to aquatic life with long lasting effects.                           |

#### Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.