

**Per-Fix™ Black for Vinyl**

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

## SECTION 1 - IDENTIFICATION

### 1.1 Product Identifier

Product Name : Per-Fix™ Black for Vinyl  
 Manufacturer Product Number : 6205A, 6205B, 6205C

### 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
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.  
 H351 : Suspected of causing cancer.

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**Precautionary Statements**

- H361 : Suspected of damaging fertility or the unborn child.
- H373 : May cause damage to organs through prolonged or repeated exposure.
- H402 : Harmful to aquatic life
  
- P202 : Do not handle until all safety precautions have been read and understood.
- P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 : Keep container tightly closed.
- P240 : Ground/bond container and receiving equipment.
- P241 : Use explosion-proof electrical/ventilating/lighting equipment.
- P242 : Use only non-sparking tools.
- P243 : Take action to prevent static discharges.
- P260 : Do not breathe vapours.
- P264 : Wash hands thoroughly after handling.
- P271 : Use only outdoors or in a well-ventilated area.
- P273 : Avoid release to the environment.
- P280 : Wear protective gloves and eye protection.
- P301+P310 : IF SWALLOWED: Immediately call POISON CENTER.
- P302+P352 : IF ON SKIN: Wash with plenty of water.
- P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 : If exposed or concerned: Get medical advice/attention
- P314 : Get medical advice/attention if you feel unwell.
- P331 : Do NOT induce vomiting.
- P332+P313 : If skin irritation occurs: Get medical advice/attention.
- P337+P313 : If eye irritation persists: Get medical advice/attention.
- P362+P364 : Take off contaminated clothing and wash it before reuse.
- P370+P378 : In case of fire: Use water, CO2, dry chemical, or universal aqueous film forming foam to extinguish.
- P403+P233 : Store in a well-ventilated place. Keep container tightly closed.
- P235 : Keep cool.
- P405 : Store locked up.
- P501 : Dispose of contents/container to applicable regulations

**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
Methyl Ethyl Ketone	78-93-3	30 - 60	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Toluene	108-88-3	10 - 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401

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Substance name	CAS Number	% wt*	Classification
Ethyl Acetate	141-78-6	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Acetone	67-64-1	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Xylene	1330-20-7	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Carbon Black	1333-86-4	1 - 5	Carc. 2, H351
Stoddard Solvent	8052-41-3	1 - 5	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Ethylbenzene	100-41-4	0.2738	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Light Aromatic Solvent Naphtha	64742-95-6	0.1 - 1	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 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>	: Because of defatting properties, repeated skin contact can cause skin damage such as chap, dermatitis, inflammation and the formation of eczema. 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.

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

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



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### 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 : 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. When using in spray application, conformance to NFPA 33 Spray Application using Flammable and Combustible Materials is recommended.  
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 flammable materials should conform to NFPA 30 Flammable and Combustible Liquid. Keep containers tightly closed and stored in a well-ventilated place. Keep away from sources of ignition. . 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.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control Parameters



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### 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

### Methyl Ethyl Ketone (78-93-3)

Canada (Alberta)	OEL TWA (ppm)	200 ppm
Canada (Alberta)	OEL TWA (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup>
Canada (Alberta)	OEL STEL (ppm)	300 ppm
Canada (Alberta)	OEL STEL (mg/m <sup>3</sup> )	885 mg/m <sup>3</sup>
Canada (British Columbia)	OEL TWA (ppm)	50 ppm
Canada (British Columbia)	OEL STEL (ppm)	100 ppm
Canada (Ontario)	OEL TWA (ppm)	200 ppm
Canada (Ontario)	OEL STEL (ppm)	300 ppm
Canada (Quebec)	VECD (ppm)	100 ppm
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	50 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	150 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> )	300 ppm
Biological Exposure Index	MEK in Urine, End of shift	2 mg/l

### 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

### 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



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<b>Carbon Black (1333-86-4)</b>		
Canada (Alberta)	OEL TWA (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
USA (ACGIH)	ACGIH TWA (ppm)	3 mg/m <sup>3</sup>
<b>Stoddard Solvent (8052-41-3)</b>		
Canada (Alberta)	OEL TWA (ppm)	100 ppm
Canada (Alberta)	OEL TWA (mg/m <sup>3</sup> )	572 mg/m <sup>3</sup>
Canada (British Columbia)	OEL TWA (mg/m <sup>3</sup> )	100 ppm 290 mg/m <sup>3</sup> 100 ppm
Canada (British Columbia)	OEL STEL (mg/m <sup>3</sup> )	580 mg/m <sup>3</sup>
Canada (Ontario)	OEL TWA (ppm)	100 ppm
Canada (Quebec)	VEMP (ppm)	100 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	525 mg/m <sup>3</sup>
USA (ACGIH)	ACGIH TWA (mg/m <sup>3</sup> )	100 ppm
<b>Acetone (67-64-1)</b>		
Canada (Alberta)	OEL TWA (ppm)	500 ppm
Canada (Alberta)	OEL TWA (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Canada (Alberta)	OEL STEL (ppm)	750 ppm
Canada (Alberta)	OEL STEL (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Canada (British Columbia)	OEL TWA (ppm)	250 ppm
Canada (British Columbia)	OEL STEL (ppm)	500 ppm
Canada (Ontario)	OEL TWA (ppm)	500 ppm
Canada (Ontario)	OEL STEL (ppm)	750 ppm
Canada (Quebec)	VECD (ppm)	1000 ppm
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	2380 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	500 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	1190 mg/m <sup>3</sup>
USA (ACGIH)	ACGIH TWA (mg/m <sup>3</sup> )	250 ppm
USA (ACGIH)	ACGIH Ceiling (mg/m <sup>3</sup> )	500 ppm
Biological Exposure Index	Acetone in urine, End of shift (Ns)	25 mg/l

## 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 ASTM F903-17.
<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, compliance with OSHA standard 29 CFR 1910.134 is necessary.
<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

<b>9.1 Physical Properties</b>			
Boiling Point	> 55.60 °C	Melting / Freezing Point	> -108.00 °C
Flash Point, Liquid	> -20.00 °C		
Explosive Limits	LEL: 0.70 UEL: 24.60 vol %	Autoignition Temperature, Liquid	> 190.00 °C
Flammability	Highly Flammable Liquid	Density	0.870 g/cm <sup>3</sup>



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Molecular Weight	Not Available	Weight	7.260 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
Appearance / Color	Black	Water Solubility	Not Available
Odor	Paint-like	Decomposition Temperature	Not Available

### 9.2 Environmental Properties

Percent Volatile	85.92 % wt	VOC Regulatory	753.27 g/L (6.29 lbs/gal)
Percent VOC	70.30 % wt	VOC Actual	611.60 g/L (5.10 lbs/gal)
Percent HAP	52.08 % wt	HAP Content	453.10 g/L (3.78 lbs/gal)
Global Warming Potential	0.59 GWP	Maximum Incremental Reactivity	1.6720 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, Calcium Hypochlorite, Acids, Hydrogen Peroxide, 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, Formaldehyde, Methanol, Acetic Acid, Peroxybenzoic Acid, Benzoic Acid.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

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

LD50 Oral (Rat)	5620 mg/kg (RTECS)
LD50 Dermal (Rabbit)	> 18000 mg/kg (Sigma-Aldrich)
LC50 Inhalation (Rat)	10600 ppm/4h (ChemInfo)

#### Methyl Ethyl Ketone (CAS: 78-93-3 / EC: 201-159-0)

LD50 Oral (Rat)	2737 mg/kg (Sigma-Aldrich)
LD50 Dermal (Rabbit)	6480 mg/kg (RTECS)
LC50 Inhalation (Rat)	205 mg/l/4h (ChemInfo)
LC50 Inhalation (Rat)	30200 ppm/4h (ChemInfo)

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

LD50 Oral (Rat)	> 2000 mg/kg (Lit.)
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### Toluene (CAS: 108-88-3 / EC: 203-625-9)

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

### 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)

### Carbon Black (CAS: 1333-86-4 / EC: 215-609-9)

LD50 Oral (Rat)	> 15400 mg/kg (RTECS)
LD50 Dermal (Rabbit)	> 3000 mg/kg (RTECS)
LC50 Inhalation (Rat)	27 mg/l/4h (ChemInfo)

### Stoddard Solvent (CAS: 8052-41-3 / EC: 232-489-3)

LD50 Oral (Rat)	> 5000 mg/kg (RTECS)
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### Acetone (CAS: 67-64-1 / EC: 200-662-2)

LD50 Oral (Rat)	5800 mg/kg (Sigma-Aldrich)
LD50 Dermal (Rabbit)	20000 mg/kg (IUCLID)
LC50 Inhalation (Rat)	76 mg/l/4h (GESTIS Substance Database)

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

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

#### Carbon Black (CAS: 1333-86-4 / EC: 215-609-9)

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

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

LC50 Fish	450 - 600 mg/l Rainbow Trout - 96hr
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# SAFETY DATA SHEET

Part No. See Section 1.1 (Liquid)

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

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

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

### Methyl Ethyl Ketone (78-93-3)

LC50 Fish	3130 - 3320 mg/l Fathead Minnow - 96h
EC50 Daphnia	7060 mg/l Water Flea - 24hr
Persistence and Degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions.
Biochemical Oxygen Demand	2.03 g O <sub>2</sub> /g substance
Chemical Oxygen Demand	2.31 g O <sub>2</sub> /g substance
Theoretical Oxygen Demand	2.44 g O <sub>2</sub> /g substance
Log Pow	0.3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	Koc,34; Calculated value

### 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

### 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
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



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

### Ethylbenzene (100-41-4)

BCF Fish	1.18
Log Pow	3.15
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500).
Log Koc	2.4

### Carbon Black (1333-86-4)

LC50 Fish	> 1000 mg/l Zebra Fish - 96hr
EC50 Daphnia	> 5600 mg/l Water Flea - 24hr
EC50 Other Aquatic Organisms	> 10000 mg/l Green Algae - 72hr
Theoretical Oxygen Demand	Not applicable
Log Pow	1.09
Bioaccumulative Potential	Not bioaccumulative.

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

LC50 Fish	Rainbow Trout - 96hr
Log Pow	3.16-7.06
Log Koc	log Koc, 2.85-6.74

### Acetone (67-64-1)

LC50 Fish	5540 mg/l Rainbow Trout - 96hr
LC50 Fish	8300 mg/l Bluegill Sunfish - 96h
EC50 Daphnia	8800 mg/l Water Flea - 48hr
Persistence and Degradability	Biodegradability 90% / 28 days.
Biochemical Oxygen Demand	1.43 g O <sub>2</sub> /g substance
Chemical Oxygen Demand	1.92 g O <sub>2</sub> /g substance
Theoretical Oxygen Demand	2.2 g O <sub>2</sub> /g substance
BCF Fish	0.69
BCF Other Aquatic Organisms	3
Log Pow	-0.24

### 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

## 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 Vinyl

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/NDSL 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

<b>Indication of changes</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e1f5fe;"> <th style="width: 20%;">Section</th> <th style="width: 60%;">Changed item</th> <th style="width: 20%;">Change</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Created Safety Data Sheet - Revision 1</td> <td style="text-align: center;">Added</td> </tr> </tbody> </table>	Section	Changed item	Change	1	Created Safety Data Sheet - Revision 1	Added																			
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<b>Full Text of H-Statements</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e1f5fe;"> <th style="width: 20%;">H Code</th> <th style="width: 80%;">H Phrase</th> </tr> </thead> <tbody> <tr><td>H225</td><td>Highly flammable liquid and vapour.</td></tr> <tr><td>H226</td><td>Flammable liquid and vapour.</td></tr> <tr><td>H304</td><td>May be fatal if swallowed and enters airways.</td></tr> <tr><td>H315</td><td>Causes skin irritation.</td></tr> <tr><td>H319</td><td>Causes serious eye irritation.</td></tr> <tr><td>H336</td><td>May cause drowsiness or dizziness.</td></tr> <tr><td>H351</td><td>Suspected of causing cancer.</td></tr> <tr><td>H361</td><td>Suspected of damaging fertility or the unborn child.</td></tr> <tr><td>H373</td><td>May cause damage to organs through prolonged or repeated exposure.</td></tr> <tr><td>H401</td><td>Toxic to aquatic life</td></tr> <tr><td>H402</td><td>Harmful to aquatic life</td></tr> </tbody> </table>	H Code	H Phrase	H225	Highly flammable liquid and vapour.	H226	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.	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.	H401	Toxic to aquatic life	H402	Harmful to aquatic life	
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