

## Per-Fix™ Polypropylene

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

### SECTION 1 - IDENTIFICATION

#### 1.1 Product Identifier

**Product Name** : Per-Fix™ Polypropylene  
**Manufacturer Product Number** : 7205A-5, 7205AA-1, 7205AA-5, 7205AA-5DM, 7205AAA-5, 7205B-5, 7205C-5

#### 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
<b>Company Name</b>	Chem-Pak Inc	Chem-Pak Inc
<b>Address</b>	242 Corning Way, Martinsburg, WV 25405 - United States	242 Corning Way, Martinsburg, WV 25405 - United States
<b>Phone Number</b>	304-262-1880	304-262-1880
<b>Fax Number</b>	304-262-9643	304-262-9643
<b>Email</b>	msds@chem-pak.com	
<b>Website</b>	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. 1	H350	Health Hazards	Carcinogenicity, Category 1
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



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.



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Precautionary Statements	H340	: May cause genetic defects.
	H350	: May cause cancer.
	H361	: Suspected of damaging fertility or the unborn child.
	H373	: May cause damage to organs through prolonged or repeated exposure.
	H402	: Harmful to aquatic life
	P201	: Obtain special instructions before use.
	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 vapor or fumes.
	P261	: Avoid breathing dust/fume/gas/mist/vapours/spray.
	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
P312	: Call a POISON CENTER or doctor if you feel unwell.	
P314	: Get medical advice/attention if you feel unwell.	
P321	: Specific treatment (see supplemental first aid instruction on this label)	
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.	
P403+P235	: Store in a well-ventilated place. 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
Ethyl Acetate	141-78-6	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

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Substance name	CAS Number	% wt*	Classification
Methyl Acetate	79-20-9	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Xylene	1330-20-7	10 - 30	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
Solvent Naphtha (Petroleum), Light Aliphatic	64742-89-8	5 - 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
Isopropyl Acetate	108-21-4	5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Toluene	108-88-3	5 - 10	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
Ethylbenzene	100-41-4	2.3464	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
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 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, Confusion, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Optical Nerve Damage, Cough, 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.



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### 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. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation.*  
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.*



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### 7.2 Conditions for Safe Storage Including Any Incompatibilities

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

## 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
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Methyl Acetate (79-20-9)		
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
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

- Engineering Measures** : 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.
- Personal Protective Equipment**
- Eye / Face Protection** : 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.
- Hand Protection** : Chemical-resistant gloves, tested according to EN 374.
- Remarks** : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.
- Skin and Body Protection** : 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.
- Respiratory Protection** : An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits.
- Compliance** : If needed, wear an appropriate NIOSH approved respirator.
- Other Protective Equipment** : Safety showers and eye-wash stations should be available in the workplace near where the material will be used.
- Environmental Exposure Controls** : 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	0.869 g/cm <sup>3</sup>
Molecular Weight	Not Available	Weight	7.252 lbs/gal
Vapor Pressure	Not Available	pH	Not Available



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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	Colorless	Water Solubility	Not Available
Odor	Paint-like	Decomposition Temperature	Not Available

### 9.2 Environmental Properties

Percent Volatile	90.25 % wt	VOC Regulatory	763.28 g/L (6.37 lbs/gal)
Percent VOC	70.08 % wt	VOC Actual	609.02 g/L (5.08 lbs/gal)
Percent HAP	26.94 % wt	HAP Content	234.11 g/L (1.95 lbs/gal)
Global Warming Potential	0.15 GWP	Maximum Incremental Reactivity	2.2070 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, 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.)





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### 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.)

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

LD50 Oral (Rat)	> 5000 mg/kg (External SDS)
LD50 Dermal (Rabbit)	> 2000 mg/kg (External SDS)
LC50 Inhalation (Rat)	> 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)	> 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)	> 5000 mg/kg (RTECS)
LC50 Inhalation (Rat)	> 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)	> 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





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### Xylene (1330-20-7)

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
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



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

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




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<b>14.2 UN Proper Shipping Name</b>	<b>TDG (CANADA)</b>	<b>IATA (AIR)</b>	<b>IMDG (OCEAN)</b>
UN Proper Shipping Name	Paint	Paint	Paint
<b>14.3 Transport Hazard Class(es)</b>	<b>TDG (CANADA)</b>	<b>IATA (AIR)</b>	<b>IMDG (OCEAN)</b>
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
<b>14.4 Packing Group</b>	<b>TDG (CANADA)</b>	<b>IATA (AIR)</b>	<b>IMDG (OCEAN)</b>
Packing Group	II	II	II
<b>14.5 Environmental Hazards</b>	<b>TDG (CANADA)</b>	<b>IATA (AIR)</b>	<b>IMDG (OCEAN)</b>
Marine Pollutant	No	No	No
<b>14.6 Special Precautions</b>	Precautions : None Identified		
<b>14.7 Transport in Bulk</b>	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

Section	Changed item	Change
1	Supersedes	Modified
1	Revision date	Modified
2.1	GHS-US classification	Modified
2.2	Precautionary statements (GHS US)	Modified
2.2	Hazard statements (GHS US)	Modified
3	Composition/information on ingredients	Modified
6	Environmental precautions	Modified
6	For containment	Added
6	Emergency procedures	Modified
7.1	Hygiene measures	Modified
7.1	Precautions for safe handling	Modified
9	Relative vapour density at 20 °C	Added
9	Melting point	Modified
9	Flash point	Modified
9	Explosive limits (vol %)	Modified
9	Auto-ignition temperature	Modified

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.



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H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

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