

Part No. See Section1.1 (Aerosol)

Print Date: 09/07/2019 Revision Date: 7/9/2019 Supersedes Date: 8/22/2017 Issue Date: 8/22/2017

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Per-Fix™ Black for ABS

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

SECTION 1 - IDENTIFICATION

1.1 **Product Identifier**

Product Name : Per-Fix™ Black for ABS **Manufacturer Product Number** : 8500AA, 8500A, 8500B, 8500C

Other Means of Identification 1.2

Other Identifiers : Flaw Repair

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

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 -	242 Corning Way, Martinsburg, WV 25405 - United
	United States	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 Classific	cation of th	e Substance or Mixture	
Flam. Aerosol 1	H222	Physical Hazards	Flammable aerosols, Category 1
Skin Irrit. 2	H315	Health Hazards	Skin corrosion/irritation, Category 2
Eye Irrit. 2a	H319	Health Hazards	Serious eye damage/eye irritation, Category 2A
Skin Sens. 1	H317	Health Hazards	Skin sensitisation, Category 1
Carc. 2	H351	Health Hazards	Carcinogenicity, Category 2
Repr. 2	H361	Health Hazards	Reproductive toxicity, Category 2
Stot Se 3	Н336	Health Hazards	Specific target organ toxicity — Single exposure, Category 3, Narcosis
Asp. Tox. 1	H304	Health Hazards	Aspiration hazard, Category 1

2.2 **Label Elements**

Hazard Pictograms







Signal Word Danger

Hazard Statements	H222	: Extremely flammable aerosol.
	H304	: May be fatal if swallowed and enters airways
	H315	: Causes skin irritation.
	H317	: May cause an allergic skin reaction.
	Н319	: Causes serious eye irritation.
	Н336	: May cause drowsiness or dizziness.
	H351	: Suspected of causing cancer.



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H361 : Suspected of damaging fertility or the unborn child.

Precautionary Statements 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.

P211 Do not spray on an open flame or other ignition source.

P251 : Do not pierce or burn, even after use.

P261 Avoid breathing spray.

Wash hands thoroughly after handling. P264 P271 : Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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.

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 physician if you feel unwell. P331 : Do NOT induce vomiting.

P333+P313 : If skin irritation or rash 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.

P403 : Store in a well-ventilated place.

: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P410+P412

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
Solvent Naphtha (Petroleum), Light Aliphatic	64742-89-8	30 - 60	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
Propane	74-98-6	10 - 30	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Ethyl Acetate	141-78-6	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Methyl Acetate	79-20-9	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Poly(Iso-Butyl Methacrylate)	9011-15-8	5 - 10	Not classified
(1-Methoxy-2-Propyl) Acetate	108-65-6	1 - 5	Flam. Liq. 3, H226 Aquatic Acute 3, H402
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



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Substance name	CAS Number	% wt*	Classification
Light Aromatic Solvent Naphtha	64742-95-6	1 - 5	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 Aquatic Acute 3, H402
Carbon Black	1333-86-4	0.1 - 1	Carc. 2, H351
Toluene	108-88-3	0.1 - 1	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	0.2548	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
Boron, Trifluoro(Tetrahydrofurane) Polymer	753501-40-5	0.1 - 1	Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

SECTION 4 - FIRST-AID MEASURES

4.1 **Description of First-Aid Measures**

General Measures : Call a physician immediately.

Inhalation : Remove person to fresh air and keep comfortable for breathing.

Skin Contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical

advice/attention.

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

rinsing. If eye irritation persists: Get medical advice/attention.

: Do not induce vomiting. Call a physician immediately. Ingestion

: Wear adequate personal protective equipment based on the nature and severity of the emergency. First-Aid Responder Protection

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms of Exposure : Eye Irritation, Nose Irritation, Throat Irritation, Dermatitis, Confusion, Skin Irritation, Headache, Dizziness,

Nausea, Narcosis, Drowsiness, Vomiting, Optical Nerve Damage, Cough, Chest Tightness, Mucous

Membrane, Diarrhea.

Delayed Effects : No known delayed effects. **Immediate Effects** : No known immediate effects.

Chronic Effects : Repeated or prolonged contact may cause skin sensitization.

Target Organs : Central Nervous System, Eyes, Liver, Nasal Cavity, Reproductive System, Respiratory System, Skin, Kidneys.

Indication of Immediate Medical Attention and Special Treatment 4.3

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.

^{*}Chemical name, CAS number and/or exact concentration have been withheld as a trade secret



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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**
- : Extremely flammable. Contents under pressure. 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 ianition source.

5.3 Special Protective Actions for Fire-Fighters

Firefighting Instructions

: Use water spray to cool fire exposed aerosol 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

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

: Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, 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

: Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned.

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 prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. 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.

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. Ensure can is in a secure place to prevent knocking over and accidental rupture.

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/m³)	1440 mg/m³
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/m³)	1440 mg/m³
USA (ACGIH)	ACGIH TWA (mg/m³)	400 ppm
Toluene (108-88-3)		
Canada (Alberta)	OEL TWA (ppm)	50 ppm
Canada (Alberta)	OEL TWA (mg/m³)	188 mg/m³
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/m³)	188 mg/m³
USA (ACGIH)	ACGIH TWA (mg/m³)	20 ppm
USA (ACGIH)	ACGIH Ceiling (mg/m³)	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/m³)	434 mg/m³
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/m³)	100 ppm
USA (ACGIH)	ACGIH Ceiling (mg/m³)	150 ppm
Biological Exposure Index	Methylhippuric Acid in Urine (Post Shift), End of shift	1.5 g/g creatinine
	metrymppuneriou meme (restempt), 2nd of singt	2.0 g, g o. cutc
Ethylbenzene (100-41-4)		
Canada (Alberta)	OEL TWA (ppm)	100 ppm
Canada (Alberta)	OEL TWA (mg/m³)	434 mg/m³
Canada (Alberta)	OEL Ceiling (ppm)	125 ppm
Canada (Alberta)	OEL Ceiling (mg/m³)	543 mg/m³
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/m³)	543 mg/m³
Canada (Quebec)	VEMP (ppm)	100 ppm
Canada (Quebec)	VEMP (mg/m³)	434 mg/m³
USA (ACGIH)	ACGIH TWA (mg/m³)	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
Methyl Acetate (79-20-9)		
Canada (Alberta)	OEL TWA (ppm)	200 ppm
Canada (Alberta)	OEL TWA (mg/m³)	600 mg/m³
Canada (Alberta)	OEL STEL (ppm)	250 ppm
Canada (Alberta)	OEL STEL (mg/m³)	757 mg/m³
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/m³)	757 mg/m³
Canada (Quebec)	VEMP (ppm)	200 ppm
Canada (Quebec)	VEMP (mg/m³)	606 mg/m³
USA (ACGIH)	ACGIH TWA (mg/m³)	200 ppm
USA (ACGIH)	ACGIH Ceiling (mg/m³)	250 ppm



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Propane (74-98-6)			
Canada (Alberta)	OEL TWA (ppm)	1000 ppm	
Canada (British Columbia)	OEL TWA (ppm)	1000 ppm	
Canada (Ontario)	OEL TWA (ppm)	1000 ppm	
Canada (Quebec)	VEMP (ppm)	1000 ppm	
Canada (Quebec)	VEMP (mg/m³)	1800 mg/m³	
Poly(Iso-Butyl Methacrylate,		2000	
Poly(ISO-Butyl Wethat ylute)	(3011-13-8)	2 / 3 /Dti /t	
		3 mg/m³ (Particulates (insoluble or poorly soluble)(NOS); USA; Time	
USA (ACGIH)	ACGIH TWA (ppm)	weighted average	
	7.65 (() () () () () () () () (exposure limit 8 h; TLV -	
		Adopted Value; Respirable	
		fraction)	
(1-Methoxy-2-Propyl) Aceta	e (108-65-6)		
Canada (British Columbia)	OEL TWA (ppm)	50 ppm	
Canada (British Columbia)	OEL STEL (ppm)	75 ppm	
Canada (Ontario) OEL TWA (ppm)		50 ppm	
Carbon Black (1333-86-4)			
Canada (Alberta)	OEL TWA (mg/m³)	3.5 mg/m³	
Canada (Quebec)	VEMP (mg/m³)	3.5 mg/m³	
USA (ACGIH)	ACGIH TWA (ppm)	3 mg/m³	
0.2 Functions Cont			
8.2 Exposure Cont			
Engineering Measures	: Use only with adequate ventilation. General ventilation (t Ventilation rates should be matched to conditions. Local e may be necessary to control air contamination below that	exhaust ventilation or an enclosed handling system	
Personal Protective Equipme	nt		
Eye / Face Protection	: Safety glasses with side shields are recommended as a mi Where eye contact with this material could occur, chemica		
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 th hazardous substance and specific to the place of work.		ling on the concentration and quantity of the	
Skin and Body Protectio	nd Body Protection : For brief contact, no precautions other than clean body-covering clothing should be needed. When prolong 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 respirato	or.	
Other Protective Equipment : Safety showers and eye-wash stations should be available in the workplace near where the material will			

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Environmental Exposure Controls

used.

: Avoid release to the environment.

9.1 Physical Prope	rties		
Boiling Point	> 56.90 ℃	Melting / Freezing Point	>-98.00 °C
Flash Point, Liquid	> -20.00 °C	Flash Point, Propellant	-104.40 °C
Explosive Limits	LEL: 0.80 UEL: 24.60 vol %	Autoignition Temperature, Liquid	> 190.00 °C
Flammability	Extremely Flammable Aerosol	Density	0.728 g/cm³
Molecular Weight	Not Available	Weight	6.075 lbs/gal
Vapor Pressure	Not Available	рН	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	Pressurized Product	Heat Of Combustion	14396.73 BTU/lb



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Not Available

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Water Solubility

Odor	Paint-like	Decomposition Temperature	Not Available
9.2 Environmental Pro	pperties		
Percent Volatile	90.35 % wt	VOC Regulatory	650.09 g/L (5.43 lbs/gal)
Percent VOC	80.19 % wt	VOC Actual	583.78 g/L (4.87 lbs/gal)
Percent HAP	2.69 % wt	HAP Content	19.58 g/L (0.16 lbs/gal)
Global Warming Potential	0.84 GWP	Maximum Incremental Reactivity	1.0740 g O3/g
Ozono Donlotion Potential	0.00.000		

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

Appearance / Color

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.

Black

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.

Incompatible Materials 10.5

Xvlene (CΔS: 1330-20-7 / FC: 215-535-7)

Materials to Avoid

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

Hazardous Decomposition Products 10.6

Thermal Decomposition : Oxides of carbon, Aldehydes, 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)	

	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.)	

Aylene (CAS. 1990 20 7 / Ec. 215 999 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)



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Ethylbenzene (CAS: 100-41-4 / EC: 202-849-4)			
C50 Inhalation (Rat) 4000 ppm/4h (ChemInfo)			
olvent 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)		
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)		
Propane (CAS: 74-98-6 / EC: 200-827-9)			
LC50 Inhalation (Rat)	658 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)		
LC50 Inhalation (Rat)	3670 ppm/4h (Lit.)		
(1-Methoxy-2-Propyl) Acetate (CAS: 108-65-6 / EC:	203-603-9)		
LD50 Oral (Rat)	10000 mg/kg (ChemInfo)		
LD50 Dermal (Rabbit)	19200 mg/kg (ChemInfo)		
LC50 Inhalation (Rat)	> 5250 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)			
Boron, Trifluoro(Tetrahydrofurane) Polymer (CAS: 7	/53501-40-5 / EC:)		
LD50 Oral (Rat)	> 2000 mg/kg (External SDS)		
Davidas Of Francisco	. Fire Contact Investige Clin Contact Inhalation Clin Absorption		
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	: May cause an allergic skin reaction.		
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-Single Exposure	: Not classified		
	: May be fatal if swallowed and enters airways.		
Aspiration Hazard			
Vaporizer	: Aerosol		
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**



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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 Degradibility	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical Oxygen Demand	0.293 g O₂/g substance
Chemical Oxygen Demand	1.69 g O₂/g substance
Theoretical Oxygen Demand 1.82 g O₂/g substance	
Biodegration	100 % 28 Days
BCF Fish	30
Log Pow 0.73 Bioacculative Potential Low potential for bioaccumulation (BCF < 500).	

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 Degradibility	Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.
Biochemical Oxygen Demand	2.15 g O₂/g substance
Chemical Oxygen Demand	2.52 g O₂/g substance
Theoretical Oxygen Demand	3.13 g O ₂ /g substance
Biodegration	86 % 28 Days
Log Pow	2.73 (Experimental Value)
Bioacculative 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 Degradibility	Readily biodegradable in water.
Biochemical Oxygen Demand	1.40 - 2.53 g O₂/g substance
Chemical Oxygen Demand	2.56 - 2.91 g O₂/g substance
Theoretical Oxygen Demand	3.1 g O₂/g substance
BCF Fish	14.1 - 24 (BCF)
Log Pow	3.217
Bioacculative 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 Degradibility	Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.
Biochemical Oxygen Demand	1.44 g O₂/g substance
Chemical Oxygen Demand	2.1 g O₂/g substance
Theoretical Oxygen Demand	3.17 g O₂/g substance
Biodegration	81 % 28 Days
BCF Fish 1.18	
Log Pow	3.15
Bioacculative Potential Low potential for bioaccumulation (BCF < 500).	
Log Koc	2.4

Solvent Naphtha (Petroleum), Light Aliphatic (64742-89-8)	
Persistence and Degradibility Expected to be readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.	
Biodegration	95 % 28 Days
Log Kow 2.1 Bioacculative Potential Low potential for bioaccumulation (Log Kow < 4).	



Part No. See Section 1.1 (Aerosol)

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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 Degradibility	Readily biodegradable in water. Inherently biodegradable. Highly mobile in soil.		
Chemical Oxygen Demand	1511.8 mg/g		
Theoretical Oxygen Demand	1510 mg/g		
Biodegration	70 % 28 Days		
BCF Fish	< 1 (BCF)		
Log Pow	0.18		
Bioacculative Potential	Low potential for bioaccumulation (BCF < 500).		
Log Koc	0.68		
Propane (74-98-6)			
Persistence and Degradibility	Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.		
BCF Fish	9 - 25 (BCF)		
Log Pow	2.28 (Calculated)		
Bioacculative Potential	Low potential for bioaccumulation (Log Kow < 4).		
Light Aromatic Solvent Naphtha (64742-95-6			
LC50 Fish	18 mg/l (LC50)		
EC50 Daphnia	21 mg/l (EC50)		
Persistence and Degradibility Log Pow	Readily biodegradable in water.		
Polylica Rutyl Mathacoulata (0011 15 9)			
Poly(iso-Butyl Methacrylate) (9011-15-8)	Diadagandahilik, ia watan na daka muilahla Nan dagandahla ia kha sail Adagha iaka kha sail		
Persistence and Degradibility	Biodegradability in water: no data available. Non degradable in the soil. Adsorbs into the soil.		
	Biodegradability in water: no data available. Non degradable in the soil. Adsorbs into the soil. Bioaccumable.		
Persistence and Degradibility	Bioaccumable.		
Persistence and Degradibility Bioacculative Potential	Bioaccumable.		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6)	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish	Bioaccumable. 100 mg/l Rainbow Trout - 96hr		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6 , LC50 Fish EC50 Daphnia	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6, LC50 Fish EC50 Daphnia EC50 Daphnia	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6, LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days.		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6, LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6, LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6, LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow Log Koc	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56 0.36		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow Log Koc Carbon Black (1333-86-4) LC50 Fish	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56 0.36 > 1000 mg/l Zebra Fish - 96hr		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow Log Koc Carbon Black (1333-86-4) LC50 Fish EC50 Daphnia	100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56 0.36 > 1000 mg/l Zebra Fish - 96hr > 5600 mg/l Water Flea - 24hr		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow Log Koc Carbon Black (1333-86-4) LC50 Fish EC50 Daphnia EC50 Other Aquatic Organisms	100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56 0.36 > 1000 mg/l Zebra Fish - 96hr > 5600 mg/l Water Flea - 24hr > 10000 mg/l Green Algae - 72hr		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow Log Koc Carbon Black (1333-86-4) LC50 Fish EC50 Daphnia EC50 Other Aquatic Organisms Theoretical Oxygen Demand	100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56 0.36 > 1000 mg/l Zebra Fish - 96hr > 5600 mg/l Water Flea - 24hr > 10000 mg/l Green Algae - 72hr Not applicable		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow Log Koc Carbon Black (1333-86-4) LC50 Fish EC50 Daphnia EC50 Other Aquatic Organisms Theoretical Oxygen Demand Log Pow	100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56 0.36 > 1000 mg/l Zebra Fish - 96hr > 5600 mg/l Water Flea - 24hr > 10000 mg/l Green Algae - 72hr Not applicable 1.09		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow Log Koc Carbon Black (1333-86-4) LC50 Fish EC50 Daphnia EC50 Other Aquatic Organisms Theoretical Oxygen Demand Log Pow Bioacculative Potential	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56 0.36 > 1000 mg/l Zebra Fish - 96hr > 5600 mg/l Water Flea - 24hr > 10000 mg/l Green Algae - 72hr Not applicable 1.09 Not bioaccumulative.		
Persistence and Degradibility Bioacculative Potential (1-METHOXY-2-PROPYL) ACETATE (108-65-6) LC50 Fish EC50 Daphnia EC50 Daphnia Persistence and Degradibility Biochemical Oxygen Demand Chemical Oxygen Demand Theoretical Oxygen Demand Log Pow Log Koc Carbon Black (1333-86-4) LC50 Fish EC50 Daphnia EC50 Other Aquatic Organisms Theoretical Oxygen Demand Log Pow	Bioaccumable. 100 mg/l Rainbow Trout - 96hr 373 mg/l Water Flea - 48hr > 1000 mg/l Green Algae - 96hr Biodegradability 81% / 28 days. 330 mg/g 1740 mg/g 1820 mg/g 0.56 0.36 > 1000 mg/l Zebra Fish - 96hr > 5600 mg/l Water Flea - 24hr > 10000 mg/l Green Algae - 72hr Not applicable 1.09 Not bioaccumulative.		

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 **Waste Treatment Methods**

Waste Disposal

: Characteristics and waste stream classification can change with product use and location. 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 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.



Part No. See Section 1.1 (Aerosol)

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

Landfill Precautions : Not Available.

Incineration Precautions ** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **.

	- TRANSPORTATION	
SECTION 14	- IRANSPURTATION	INELIKIVIATILIIV

14.1	UN Number	TDG (CANADA)	IATA (AIR)	IMDG (OCEAN)

UN Number UN1950 UN1950 UN1950

TDG (CANADA) **UN Proper Shipping Name IMDG (OCEAN)** 14.2 IATA (AIR)

UN Proper Shipping Name Aerosols, Limited Quantity Aerosols, Flammable, Limited Aerosols, Limited Quantity

Quantity

IMDG (OCEAN) 14.3 **Transport Hazard Class(es)** TDG (CANADA) IATA (AIR)

Transport Hazard Class(es) 2.1 2.1 2.1 - Flammable gas Labels None None



Limited Quantity





EmS Code Not Applicable Not Applicable F-D, S-U

14.4	Packing Group	TDG (CANADA)	IATA (AIR)	IMDG (OCEAN)
_				

Packing Group None None None

14.5 **Environmental Hazards** TDG (CANADA) IATA (AIR) **IMDG (OCEAN)** No

Marine Pollutant 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

Indication of changes

:	Section	Changed item	Change
	1	Revision date	Modified
	1	Supersedes	Modified
	3	Composition/information on ingredients	Modified
	9	Auto-ignition temperature	Modified
	9	Explosive limits (vol %)	Modified
	9	Flash point	Modified
	9	Relative vapour density at 20 °C	Added

Full Text of H-Statements

:	H Code	H Phrase
	H222	Extremely flammable aerosol.



Part No. See Section 1.1 (Aerosol)

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H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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

Disclaimer of Liability

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