

Part No. See Section 1.1 (Liquid)

Per-Fix™ for Vinyl

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l .1	Product Ident	ifier			
Product	Name		: Per-Fix™	' for Vinyl	
Manufa	cturer Product Num	ber	: 6405AA	A, 6405AA, 6405A, 6405B, 6405C	
1.2	Other Means	of Identification	ı		
Other Id	dentifiers		: Flaw Rep	zair	
1.3	Relevant Iden	tified Uses of th	e Substance	or Mixture and Uses Advised Agai	inst
Recomn	nended Use		: Touch-u	p coating for molded plastic parts.	
Restricti	ions on Use		: None Ide	entified	
1.4	Supplier Deta	ils			
				Manufacturer Details	Supplier Details
•	ny Name			Pak Inc	Chem-Pak Inc
Address	i			orning Way, Martinsburg, WV 25405 - I States	242 Corning Way, Martinsburg, WV 25405 - United States
Phone N	lumber			52-1880	304-262-1880
Fax Nun	nber			52-9643	304-262-9643
Email				Pchem-pak.com	msds@chem-pak.com
Website	5		: http://	/www.chem-pak.com	http://www.chem-pak.com
1.5	24 hr Emerge	ncy Phone Num	ber		
Emerge	ncy Number		: 800-255	-3924	
			Chem-Te	21	
SECT	ION 2 - HAZAF		ΔΤΙΟΝ		
			SAIION		
2.1	Classification	of the Substanc	e or Mixture		
Flam. Lio	q. 2 H22	25 Physical H	azards	Flammable liquids Category 2	
Skin Irrit	t. 2 H3:	15 Health Haz	ards	Skin corrosion/irritation Category	2
Eye Irrit.	. 2 H3:	19 Health Haz	ards	Serious eye damage/eye irritation	Category 2
Carc. 2	H35	51 Health Haz	ards	Carcinogenicity Category 2	
Repr. 2	НЗб	61 Health Haz	ards	Reproductive toxicity Category 2	
Stot Se 3	з нз	36 Health Haz	ards		gle exposure) Category 3, Narcosis
Stot Re 2	2 НЗ	73 Health Haz	ards	Specific target organ toxicity (repe	eated exposure) Category 2
Asp. Tox	к. 1 H30	04 Health Haz	ards	Aspiration hazard Category 1	
Aquatic	Acute 3 H40	02 Environme	ntal Hazards	Hazardous to the aquatic environ	ment - Acute Hazard Category 3
2.2	Label Element				





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	11226	May any a drawsinger or distinger
	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
	H402	: Harmful to aquatic life
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. 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 precautionary measures against static discharge.
	P260	: Do not breathe vapor or fumes.
	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.
	P303+P361+P353	: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	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.
	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 local regulations.
2.3 Other Hazards Which Do	Not Result In Classification	1
Hazards Not Otherwise Classified	· None Identified	

Hazards Not Otherwise Classified

: None Identified.

2.4 Unknown acute toxicity

6% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 8.1% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 6% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (vapors))

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	30 - 60	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336



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CAS Number	% wt*	Classification
78-93-3	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
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
64742-95-6	1 - 5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 3, H402
100-41-4	2.345	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
95-63-6	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
79-20-9	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
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
98-82-8	0.1 - 1	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
	78-93-3 1330-20-7 64742-95-6 100-41-4 95-63-6 79-20-9 108-88-3	78-93-3 10 - 30 1330-20-7 10 - 30 64742-95-6 1 - 5 100-41-4 2.345 95-63-6 1 - 5 79-20-9 1 - 5 108-88-3 0.1 - 1

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	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
Eye Contact	: 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.
Ingestion	: Do NOT induce vomiting. Call a physician immediately.
First-Aid Responder Protection	: Wear adequate personal protective equipment based on the nature and severity of the emergency.



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4.2 Most Important Sympton	ns and Effects, Both Acute and Delayed
Symptoms of Exposure	: 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.
Delayed Effects	: No known delayed effects.
Immediate Effects	: No known immediate effects.
Chronic Effects	: Methyl alcohol may be fatal or cause blindness if swallowed. Repeated or prolonged contact may cause skin sensitization.
Target Organs	: Central Nervous System, Eyes, Gastrointestinal Tract, Liver, Nasal Cavity, Reproductive System, Respiratory System, Skin, Kidneys.
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 Me	edia
Extinguishing Media	: Water, carbon dioxide, dry chemical, universal aqueous film forming foam.
Unsuitable Media	: Water jet.
5.2 Specific Hazards Arising fi	rom the Chemical or Mixture
Hazardous Combustion Products	: Decomposition products may include: oxides of carbon, smoke, vapors. 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. Vapors heavier than air may spread along the ground and travel to an ignition source.
5.3 Special Protective Actions	s 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.
Protection during Firefighting SECTION 6 - ACCIDENTAL RE	mode.
SECTION 6 - ACCIDENTAL RE	mode.
SECTION 6 - ACCIDENTAL RE	mode.
SECTION 6 - ACCIDENTAL RE 6.1 Personal Precautions, Pro	mode. ILEASE MEASURES Detective Equipment and Emergency Procedures : 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
SECTION 6 - ACCIDENTAL RE 6.1 Personal Precautions, Pro For Non-Emergency Personnel	mode. EXACE MEASURES Detective Equipment and Emergency Procedures Solution 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. Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.
SECTION 6 - ACCIDENTAL RE 6.1 Personal Precautions, Pro For Non-Emergency Personnel For Emergency Personnel	mode. EXACE MEASURES Detective Equipment and Emergency Procedures Solution 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. Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.
SECTION 6 - ACCIDENTAL RE 6.1 Personal Precautions, Pro For Non-Emergency Personnel For Emergency Personnel 6.2 Environmental Precaution Environmental Precautions	mode.
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SECTION 6 - ACCIDENTAL RE 6.1 Personal Precautions, Pro For Non-Emergency Personnel For Emergency Personnel 6.2 Environmental Precaution Environmental Precautions 6.3 Methods and Materials for	mode.
SECTION 6 - ACCIDENTAL RE 6.1 Personal Precautions, Pro For Non-Emergency Personnel For Emergency Personnel 6.2 Environmental Precaution Environmental Precautions 6.3 Methods and Materials for Containment Procedures	mode. LEASE MEASURES btective Equipment and Emergency Procedures : 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. : Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above. ns : Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination. or Containment and Cleaning up : Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents. : Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and



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SECTION 7 - HANDLING AN 7.1 Precautions for Safe Har	
General Handling Precautions	: KEEP OUT OF THE REACH OF CHILDREN. Avoid use around open flames or other sources of ignition. 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 Store	age 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.
NFPA 30B Classification	: This product is classified as a Level 3 Aerosol per NFPA 30B

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Ethyl Acetate (141-78-6)		
ACGIH	ACGIH TWA (mg/m³)	400 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	1400 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
NIOSH	US IDLH (ppm)	2000 ppm
NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
California	California PEL (TWA) (mg/m3)	1400 mg/m ³
California	California PEL (TWA) (ppm)	400 ppm
Methyl Ethyl Ketone (78-93-3)		
ACGIH	ACGIH TWA (mg/m³)	200 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	300 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	590 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
NIOSH	US IDLH (ppm)	3000 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	590 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
California	California PEL (TWA) (mg/m3)	590 mg/m ³
California	California PEL (TWA) (ppm)	200 ppm
California	California PEL (STEL) (mg/m3)	885 mg/m ³
California	California PEL (STEL) (ppm)	300 ppm
Biological Exposure Index	MEK in Urine, End of shift	2 mg/l
Toluene (108-88-3)		
ACGIH	ACGIH TWA (mg/m³)	20 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	150 ppm
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
NIOSH	US IDLH (ppm)	500 ppm
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
California	California PEL (TWA) (mg/m3)	37 mg/m³
California	California PEL (TWA) (ppm)	10 ppm
California	California PEL (STEL) (mg/m3)	560 mg/m ³
California	California PEL (STEL) (ppm)	150 ppm
California	California PEL (Ceiling) (ppm)	500 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



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Kylene (1330-20-7)		
ACGIH	ACGIH TWA (mg/m³)	100 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	150 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
NIOSH	US IDLH (ppm)	900 ppm
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
California	California PEL (TWA) (mg/m3)	435 mg/m ³
California	California PEL (TWA) (ppm)	100 ppm
California	California PEL (STEL) (mg/m3)	655 mg/m ³
California	California PEL (STEL) (ppm)	150 ppm
California	California PEL (Ceiling) (ppm)	300 ppm
Biological Exposure Index	Methylhippuric Acid in Urine (Post Shift), End of shift	1.5 g/g creatinine
5thul Damage (100 41 4)		
Ethyl Benzene (100-41-4) ACGIH	ACCIH TIA(A (ma/m ³))	20 nnm
	ACGIH TWA (mg/m ³)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
NIOSH	US IDLH (ppm)	800 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	435 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	545 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	125 ppm
California	California PEL (TWA) (mg/m3)	22 mg/m ³
California	California PEL (TWA) (ppm)	5 ppm
California	California PEL (STEL) (mg/m3)	130 mg/m³
California	California PEL (STEL) (ppm)	30 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)		
ACGIH	ACGIH TWA (mg/m³)	200 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	250 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	610 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
NIOSH	US IDLH (ppm)	3100 ppm
NIOSH	NIOSH REL (TWA) (mq/m ³)	610 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
NIOSH	NIOSH REL (STEL) (ma/m ³)	760 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	250 ppm
California	California PEL (TWA) (mg/m3)	610 mg/m ³
California	California PEL (TWA) (ppm)	200 ppm
California	California PEL (STEL) (mg/m3)	760 mg/m ³
California	California PEL (STEL) (ppm)	250 ppm
•		
Cumene (98-82-8)		50
ACGIH	ACGIH TWA (mg/m ³)	50 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	245 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
NIOSH	US IDLH (mg/m^3)	900 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	245 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
1,2,4-Trimethyl Benzene (95-63-0	6)	
ACGIH	ACGIH TWA (mg/m³)	25 ppm
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
NIOSH		
California	California PEL (TWA) (mg/m3)	125 mg/m³



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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 ASTMF903-17.
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 may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. Under those circumstances, users should be provided with either a half-facepiece (if wearing safety glasses) or a full-facepiece (if not wearing safety glasses) air- purifying respirator, fitted with organic vapor cartidges and P95 filters.
Compliance	: If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.
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** > 55.80 °C Melting / Freezing Point > -108.40 °C **Boiling Point** Flash Point, Liquid > -13.00 °C LEL: 0.70 UEL: 40.00 vol % **Explosive Limits** Autoignition Temperature, Liquid > 190.00 °C Highly Flammable Liquid Flammability Density 0.879 g/cm³ Molecular Weight Not Available Weight 7.335 lbs/gal Vapor Pressure Not Available рΗ 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 Not Available Liquid Heat Of Combustion Appearance / Color Clear, Colorless Water Solubility Not Available Odor Paint-like **Decomposition Temperature** Not Available 0.2 Environmental Dreparties

9.2 Environmental Properties				
Percent Volatile	90.29 % wt	VOC Regulatory	792.75 g/L (6.62 lbs/gal)	
Percent VOC	88.86 % wt	VOC Actual	781.05 g/L (6.52 lbs/gal)	
Percent HAP	16.55 % wt	HAP Content	145.47 g/L (1.21 lbs/gal)	
Global Warming Potential	0.01 GWP	Maximum Incremental Reactivity	2.3440 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.



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10.3	Possibility of Hazardous Rea	actions
Hazardo	us Reactions	: Under normal conditions of storage and use, hazardous reactions are not expected to occur.
10.4	Conditions to Avoid	
Conditio	ons 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, Hydrogen Peroxide, 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, 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)				
5620 mg/kg (RTECS)				
> 18000 mg/kg (Sigma-Aldrich)				
10600 ppm/4h (ChemInfo)				
Methyl Ethyl Ketone (CAS: 78-93-3 / EC: 201-159-0)				
2737 mg/kg (Sigma-Aldrich)				
6480 mg/kg (RTECS)				
205 mg/l/4h (ChemInfo)				
30200 ppm/4h (ChemInfo)				
> 2000 mg/kg (Lit.)				
12124 mg/kg (IUCLID)				
> 20 mg/l/4h (Lit.)				
Xylene (CAS: 1330-20-7 / EC: 215-535-7)				
4300 mg/kg (RTECS)				
12126 mg/kg (Sigma-Aldrich)				
21.7 mg/l/4h (GESTIS Substance Database)				
6700 ppm/4h (ChemInfo)				
Ethyl Benzene (CAS: 100-41-4 / EC: 202-849-4)				
4720 mg/kg (ChemInfo)				
15380 mg/kg (ChemInfo)				
17.2 mg/l/4h (IUCLID)				
4000 ppm/4h (ChemInfo)				
6970 mg/kg (Lit.)				
> 5000 mg/kg (RTECS)				
> 49.28 mg/l/4h (External SDS)				
16000 - 32000 (ChemInfo)				
2900 mg/kg (RTECS)				
10627 mg/kg (ChemInfo)				
40 mg/l/4h (ChemInfo)				



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Light Aromatic Solvent Naphtha (CAS: 64742-95-6 / E	SC- 265 100 0)		
LD50 Oral (Rat)	8400 mg/kg (RTECS)		
LD50 Dermal (Rabbit)	> 3160 mg/kg (ChemInfo)		
LC50 Inhalation (Rat)	3670 ppm/4h (Lit.)		
1,2,4-Trimethyl Benzene (CAS: 95-63-6 / EC: 202-436-	9)		
LD50 Oral (Rat)	> 5000 mg/kg (RTECS)		
LD50 Dermal (Rat)	> 3440 mg/kg (Lit.)		
LC50 Inhalation (Rat)	18 mg/l/4h (RTECS)		
Routes Of Exposure	: Eye Contact, Ingestion, Skin Contact, Inhalation, Skin Absorption.		
-	: See Section 4.2		
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	Not classified		
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:		
	Ethyl Benzene (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		
	Cumene (CAS: 98-82-8 / EC: 202-704-5)		

IARC group 2B - Possibly Carcinogenic 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	
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	$0.293 \text{ g} 0_2/\text{g} \text{ substance}$	
Chemical Oxygen Demand	1.69 g O ₂ /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).	
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 Degradibility	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions.	
Biochemical Oxygen Demand	2.03 g O ₂ /g substance	
Chemical Oxygen Demand	2.31 g O ₂ /g substance	
Theoretical Oxygen Demand	2.44 g O ₂ /g substance	
Log Pow	0.3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)	



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Methyl Ethyl Ketone (78-93-3)	
Bioacculative 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 Degradibility	Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.
Biochemical Oxygen Demand	2.15 g O ₂ /g substance
Chemical Oxygen Demand	2.52 g O_2/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	$3.1 \text{ g } O_2/\text{g substance}$
BCF Fish	14.1 - 24 (BCF)
Log Pow	3.217
Bioacculative Potential	Low potential for bioaccumulation (BCF < 500).
Log Кос	3.156
Ethyl Benzene (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 O ₂ /g substance
Chemical Oxygen Demand	$2.1 \text{ g } O_2/\text{g substance}$
Theoretical Oxygen Demand	3.17 g O ₂ /g substance
Biodegration	81 % 28 Days
BCF Fish	1.18
Log Pow Bioacculative Potential	3.15 Low potential for bioaccumulation (BCF < 500).
Log Koc	2.4
-	2.7
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 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 BCF Fish	70 % 28 Days
Log Pow	< 1 (BCF) 0.18
Log Pow Bioacculative Potential	Low potential for bioaccumulation (BCF < 500).
Log Koc	0.68
-	
Cumene (98-82-8)	1.9 ma/l Painhow Trout Offer
LC50 Fish	4.8 mg/l Rainbow Trout - 96hr



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Cumene (98-82-8)	
EC50 Daphnia	2.14 mg/l Water Flea - 48hr
EC50 Other Aquatic Organisms	2.6 mg/l Green Algae - 72hr
Persistence and Degradibility	Inherently biodegradable. Not readily biodegradable in water. Biodegradable in the soil. Low potential for
	adsorption in soil.
Biochemical Oxygen Demand	1.28 g O₂/g substance
Chemical Oxygen Demand	2.42 g O₂/g substance
Theoretical Oxygen Demand	3.2 g O₂/g substance
Biodegration	88 % 28 days
BCF Fish	35.5
BCF Other Aquatic Organisms	94.69
Log Pow	3.66
Bioacculative Potential	Low potential for bioaccumulation (BCF < 500).
Log Koc	2.946
Light Aromatic Solvent Naphtha (64742-95-	-6)
LC50 Fish	18 mg/l (LC50)
EC50 Daphnia	21 mg/l (EC50)
Persistence and Degradibility	Readily biodegradable in water.
Log Pow	>3
1,2,4-Trimethyl Benzene (95-63-6)	
LC50 Fish	7.72 mg/l Fathead Minnow - 96h
EC50 Daphnia	3.6 mg/l Water Flea - 48hr
Persistence and Degradibility	Biodegradable in the soil. Not readily biodegradable in water.
Chemical Oxygen Demand	0.44 g O ₂ /g substance
BCF Fish	243 (Pimephales promelas, QSAR)
Log Pow	3.63 (Experimental value, KOWWIN)
Bioacculative Potential	Low potential for bioaccumulation (BCF < 500).
Log Koc	3.04 (log Koc, Calculated value)

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	DOT (USA)		IATA (AIR)	IMDG (OCEAN)
UN Num	ber	:	UN1263	UN1263	UN1263
14.2	UN Proper Shipping Name		DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Prop	er Shipping Name	:	Paint	Paint	Paint
14.3	Transport Hazard Class(es)		DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Transpo	rt Hazard Class(es)	:	3	3	3
Labels		:	3 - Flammable liquid	3 - Flammable liquid	3 - Flammable liquid

			SAFETY DATA S	HEET Pa	Part No. See Section 1.1 (Liquid Print Date: 02/07/202 Revision Date: 7/2/202 Supersedes Date: 6/2/202 Issue Date: 2/13/200 Version: 9.0 (EN)-U Page: 12/1	
chem-pak, INC.			Per-Fix™ for Vinyl			
	t	according to Feder	al Register / Vol. 77, No. 58 / Monday, Marc	h 26, 2012 / Rules and Regulations		
			raman tigen	*	3	
EmS Coo	de	:	Not Applicable	Not Applicable	F-E, S-E	
14.4	Packing Group		DOT (USA)	IATA (AIR)	IMDG (OCEAN)	
Packing	Group	:	11	11	11	
14.5	Environmental Hazards		DOT (USA)	IATA (AIR)	IMDG (OCEAN)	
Marine	Pollutant	:	No	No	No	
L4.6	Special Precautions					
Precauti		: Non	e Identified			
L4.7	Transport in Bulk					
	is	: Not	applicable for product as supplie	d		
Remark						
SECTI 15.1	ION 15 - REGULATORY INF Federal Regulations ection 313	: Che		requirements of Section 313 or Title 186 and 40 CFR Part 372.	III of the Superfund Amendments	
SECTI 15.1	Federal Regulations	: Chei and	mical(s) subject to the reporting r			
SECTI 15.1	Federal Regulations	: Cher and To	mical(s) subject to the reporting r Reauthorization Act (SARA) of 19	986 and 40 CFR Part 372.	88-3 0.1 - 1%	
SECTI 15.1	Federal Regulations	: Cher and To: Xyi	mical(s) subject to the reporting 1 Reauthorization Act (SARA) of 19 Iuene	086 and 40 CFR Part 372. CAS-No. 108-	88-3 0.1 - 1% 20-7 10 - 30%	
SECTI 15.1	Federal Regulations	: Cher and To Xyı Ett	mical(s) subject to the reporting r Reauthorization Act (SARA) of 19 luene lene	086 and 40 CFR Part 372. CAS-No. 108- CAS-No. 1330	88-3 0.1 - 1% -20-7 10 - 30% 41-4 2.345%	
5.1	Federal Regulations	: Cher and To Xyu Ett Ch Cu	mical(s) subject to the reporting r Reauthorization Act (SARA) of 19 luene lene hyl Benzene lorobenzene mene	086 and 40 CFR Part 372. CAS-No. 108- CAS-No. 1330 CAS-No. 100- CAS-No. 108- CAS-No. 108- CAS-No. 98-8	88-3 0.1 - 1% 1-20-7 10 - 30% 41-4 2.345% 90-7 0.01 - 0.1% 2-8 0.1 - 1%	
SECTI 15.1	Federal Regulations	: Cher and To Xyu Ett Ch Cu	mical(s) subject to the reporting r Reauthorization Act (SARA) of 19 luene lene nyl Benzene lorobenzene	086 and 40 CFR Part 372. CAS-No. 108- CAS-No. 1330 CAS-No. 100- CAS-No. 100- CAS-No. 108-	88-3 0.1 - 1% 1-20-7 10 - 30% 41-4 2.345% 90-7 0.01 - 0.1% 2-8 0.1 - 1%	
SECTI 15.1	Federal Regulations	: Chee and To. Xyı Ett Ch Cu Bee Na	mical(s) subject to the reporting r Reauthorization Act (SARA) of 19 luene lene nyl Benzene lorobenzene mene mzene phthalene	086 and 40 CFR Part 372. CAS-No. 108- CAS-No. 1330 CAS-No. 100- CAS-No. 108- CAS-No. 108- CAS-No. 98-8 CAS-No. 71-4 CAS-No. 91-2	88-3 0.1 - 1% -20-7 10 - 30% 41-4 2.345% 90-7 0.01 - 0.1% 2-8 0.1 - 1% 3-2 0.001 - 0.01% 0-3 < 0.0001%	
SECTI 15.1	Federal Regulations	: Che and To Xyı Ett Ch Cu Be Na 1,2	mical(s) subject to the reporting i Reauthorization Act (SARA) of 19 luene lene nyl Benzene lorobenzene mene mene	086 and 40 CFR Part 372. CAS-No. 108- CAS-No. 1330 CAS-No. 100- CAS-No. 108- CAS-No. 98-8 CAS-No. 71-4	88-3 0.1 - 1% 10 - 30% 41-4 2.345% 90-7 0.01 - 0.1% 2-8 0.1 - 1% 3-2 0.001 - 0.01% 0-3 < 0.0001%	

TSCA Section 12(b)

: This product or mixture is not known to contain a chemical or chemicals subject to the export notification requirements of section 12(b) of the Toxic Substances Control Act (TSCA) and 40 CFR Part 707, subpart D

CERCLA Reportable Quantity

: Chemical(s) subject to reporting requirements of Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) if released to the environment at or above the reportable quantity

Ethyl Acetate	CAS-No. 141-78-6	5000 lb
Methyl Ethyl Ketone	CAS-No. 78-93-3	5000 lb
Toluene	CAS-No. 108-88-3	1000 lb
Xylene	CAS-No. 1330-20-7	100 lb
Ethyl Benzene	CAS-No. 100-41-4	1000 lb
Chlorobenzene	CAS-No. 108-90-7	100 lb
Cumene	CAS-No. 98-82-8	5000 lb
Benzene	CAS-No. 71-43-2	10 lb
Naphthalene	CAS-No. 91-20-3	100 lb
Isobutyl Acetate	CAS-No. 110-19-0	5000 lb
Methanol	CAS-No. 67-56-1	5000 lb



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California Proposition 65

: This product contains, or may contain, substance(s) known to the State of California to cause cancer, developmental and/or reproductive harm.

Ethyl Benzene (100-41-4)	Cancer	Yes	2.345 %
Cumene (98-82-8)	Cancer	Yes	0.1161 %
Benzene (71-43-2)	Cancer	Yes	0.0036 %
Naphthalene (91-20-3)	Cancer	Yes	0.0 %
Toluene (108-88-3)	Developmental Toxicity	Yes	0.3337 %
Benzene (71-43-2)	Developmental Toxicity	Yes	0.0036 %
Methanol (67-56-1)	Developmental Toxicity	Yes	0.002 %
Toluene (108-88-3)	No significance risk level (NSRL)	7000 µg/day	
Ethyl Benzene (100-41-4)	No significance risk level (NSRL)	54 μg/day	

State Right-to-Know Lists

: The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated

Ethyl Acetate (141-78-6)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Methyl Ethyl Ketone (78-93-3)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Toluene (108-88-3)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Xylene (1330-20-7)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Ethyl Benzene (100-41-4)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Chlorobenzene (108-90-7)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
n-Butyl Methacrylate (97-88-1)	U.S New Jersey - Right to Know Hazardous Substance List
Isobutyl Methacrylate (97-86-9)	U.S New Jersey - Right to Know Hazardous Substance List
Isopropyl Acetate (108-21-4)	U.S New Jersey - Right to Know Hazardous Substance List
Benzaldehyde (100-52-7)	U.S New Jersey - Right to Know Hazardous Substance List
Methyl Acetate (79-20-9)	U.S New Jersey - Right to Know Hazardous Substance List
Precipitated Silica (112926-00-8)	U.S New Jersey - Right to Know Hazardous Substance List
2-Butoxyethanol (111-76-2)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List U.S Massachusetts - Right To Know List
Cumene (98-82-8)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Dipropylene Glycol Monomethyl Ether (34590-94-8)	U.S New Jersey - Right to Know Hazardous Substance List
Benzene (71-43-2)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Naphthalene (91-20-3)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
1,2,4-Trimethyl Benzene (95-63-6)	U.S New Jersey - Right to Know Hazardous Substance List
Isopropyl Alcohol (67-63-0)	U.S New Jersey - Right to Know Hazardous Substance List
Isobutyl Acetate (110-19-0)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Methanol (67-56-1)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
n-Heptane (142-82-5)	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16 - OTHER INFORMATION

Indication of changes

:	Section	Changed item	Change
	1	Revision date	Modified
	1	Supersedes	Modified
	3	Composition/Information on ingredients	Modified



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