

Part No. See Section 1.1 (Liquid)

Per-Fix[™] for Styrene and Polycarbonate

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		ATION			
1.1 Produc	t Identifier				
Product Name	roduct Name : Per-Fix™ for Styrene and Polycarbonate				
Manufacturer Prod	uct Number	: 6500A	А, 6500А, 6500В, 6500С		
1.2 Other M	Means of Id	entification			
Other Identifiers		: Flaw R	Pepair		
1.3 Releva	nt Identified	d Uses of the Substance	e or Mixture and Uses Advised Agains	t	
Recommended Use		: Touch	-up coating for molded plastic parts.		
Restrictions on Use		: None	Identified		
1.4 Supplie	er Details				
			Manufacturer Details	Supplier Details	
Company Name		: Cher	m-Pak Inc	Chem-Pak Inc	
Address			Corning Way, Martinsburg, WV 25405 -	242 Corning Way, Martinsburg, WV 25405 - United	
Dhawa Numban			ed States 262-1880	States	
Phone Number				304-262-1880	
Fax Number Email			262-9643 s@chem-pak.com	304-262-9643 msds@chem-pak.com	
Website			://www.chem-pak.com	http://www.chem-pak.com	
			,,	·····	
SECTION 2 - H	HAZARDS				
2.1 Classifi			9		
2.1 Classifi		e Substance or Mixture Physical Hazards	e Flammable liquids Category 2		
Flam. Liq. 2	cation of th	e Substance or Mixture			
Flam. Liq. 2	cation of th H225	e Substance or Mixture Physical Hazards	Flammable liquids Category 2	ntegory 2A	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a	cation of th H225 H315	e Substance or Mixture Physical Hazards Health Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2	itegory 2A	
Flam. Liq. 2 Skin Irrit. 2	cation of th H225 H315 H319	e Substance or Mixture Physical Hazards Health Hazards Health Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca	itegory 2A	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b	cation of th H225 H315 H319 H340	e Substance or Mixture Physical Hazards Health Hazards Health Hazards Health Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B	itegory 2A	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b	cation of th H225 H315 H319 H340 H350	e Substance or Mixture Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B		
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b Repr. 2	cation of th H225 H315 H319 H340 H350 H361	Physical Hazards Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2	exposure) Category 3, Narcosis	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b Repr. 2 Stot Se 3	cation of th H225 H315 H319 H340 H350 H361 H336	e Substance or Mixture Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2 Specific target organ toxicity (single e	exposure) Category 3, Narcosis	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b Repr. 2 Stot Se 3 Stot Re 2	cation of th H225 H315 H319 H340 H350 H361 H336 H373	e Substance or Mixture Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2 Specific target organ toxicity (single e Specific target organ toxicity (repeated	exposure) Category 3, Narcosis ed exposure) Category 2	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b Repr. 2 Stot Se 3 Stot Re 2 Asp. Tox. 1	cation of th H225 H315 H319 H340 H350 H361 H373 H373 H304	e Substance or Mixture Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2 Specific target organ toxicity (single e Specific target organ toxicity (repeate Aspiration hazard Category 1	exposure) Category 3, Narcosis ed exposure) Category 2 nt - Acute Hazard Category 1	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b Repr. 2 Stot Se 3 Stot Re 2 Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 2	cation of th H225 H315 H319 H340 H350 H361 H336 H373 H304	e Substance or Mixture Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Environmental Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2 Specific target organ toxicity (single e Specific target organ toxicity (repeate Aspiration hazard Category 1 Hazardous to the aquatic environme	exposure) Category 3, Narcosis ed exposure) Category 2 nt - Acute Hazard Category 1	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b Repr. 2 Stot Se 3 Stot Re 2 Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 2	cation of th H225 H315 H319 H340 H350 H361 H336 H373 H304 H400 H411	Physical Hazards Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Environmental Hazards Environmental Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2 Specific target organ toxicity (single e Specific target organ toxicity (repeate Aspiration hazard Category 1 Hazardous to the aquatic environme	exposure) Category 3, Narcosis ed exposure) Category 2 nt - Acute Hazard Category 1	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b Repr. 2 Stot Se 3 Stot Re 2 Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 2 2.2	cation of th H225 H315 H319 H340 H350 H361 H336 H373 H304 H400 H411	Physical Hazards Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Environmental Hazards Environmental Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2 Specific target organ toxicity (single of Specific target organ toxicity (repeate Aspiration hazard Category 1 Hazardous to the aquatic environment Hazardous to the aquatic environment Hazardous to the aquatic environment GHS02 GHS02 GHS07 GHS07 GHS07 GHS07 GHS07 GHS07 GHS07 GHS07 Serious 2 Stategory 2 GHS07 GHS07 GHS07 GHS07 GHS07 GHS07 Category 2 GHS07 GHS07 Category 2 Specific target organ toxicity (single of Specific target organ toxicity (single of Spe	exposure) Category 3, Narcosis ed exposure) Category 2 nt - Acute Hazard Category 1 nt - Chronic Hazard Category 2	
Flam. Liq. 2 Skin Irrit. 2 Eye Irrit. 2a Muta. 1b Carc. 1b Repr. 2 Stot Se 3 Stot Re 2 Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 2 2.2 Label E Hazard Pictograms	cation of th H225 H315 H319 H340 H350 H361 H373 H304 H400 H411	Physical Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Health Hazards Environmental Hazards Environmental Hazards	Flammable liquids Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Ca Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2 Specific target organ toxicity (single of Specific target organ toxicity (repeate Aspiration hazard Category 1 Hazardous to the aquatic environment Hazardous to the aquatic environment Hazardous to the aquatic environment GHS02 GHS02 GHS07 GHS07 GHS07 GHS07 GHS07 GHS07 GHS07 GHS07 Serious 2 Stategory 2 GHS07 GHS07 GHS07 GHS07 GHS07 GHS07 Category 2 GHS07 GHS07 Category 2 Specific target organ toxicity (single of Specific target organ toxicity (single of Spe	exposure) Category 3, Narcosis ed exposure) Category 2 nt - Acute Hazard Category 1 nt - Chronic Hazard Category 2	



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		vo. 367 Monuuy, Murch 20, 2012 / Kules unu Regulations
	H315	: Causes skin irritation
	H319	: Causes serious eye irritation
	H336	: May cause drowsiness or dizziness
	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
	H411	: Toxic to aquatic life with long lasting effects
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, present and easy to do. Continue rinsing.
	P308+P313	: If exposed or concerned: Get medical advice/attention.
	P314	: Get medical advice/attention if you feel unwell.
	P331	: Do NOT induce vomiting.
	P332+P313	: If skin irritation occurs: Get medical advice/attention.
	P337+P313	: If eye irritation persists: Get medical advice/attention.
	P362+P364	: Take off contaminated clothing and wash it before reuse.
	P370+P378	: In case of fire: Use water, CO2, dry chemical, or universal aqueous film forming foa
	P391	to extinguish.
		: Collect spillage.
	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.

Hazards Not Otherwise Classified

: None Identified.

2.4 Unknown acute toxicity

10.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 33.08% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 15.02% 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



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Substance name	CAS Number	% wt*	Classification
Hydrotreating Light Process Distillate	68410-97-9	10 - 30	Asp. Tox. 1, H304
Hydrotreated Light Petroleum Naphtha	64742-49-0	10 - 30	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Methyl Acetate	79-20-9	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Isopropyl Alcohol	67-63-0	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
N-Heptane	142-82-5	5 - 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-Hexane	110-54-3	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 Aquatic Chronic 2, H411
Secondary Butyl Alcohol	78-92-2	1 - 5	Flam. Liq. 3, H226 Eye Irrit. 2A, H319 STOT SE 3, H336 STOT SE 3, H335
Stoddard Solvent	8052-41-3	1 - 5	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Ethyl Acetate	141-78-6	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Xylene	1330-20-7	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Octane	111-65-9	1 - 5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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



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Substance name	CAS Number	% wt*	Classification
Thyl Benzene	100-41-4	0.3685	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
Solvent Naphtha (Petroleum), Light Aliphatic	64742-89-8	0.1 - 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 Asp. Tox. 1, H304

SECTION 4 - FIRST-AID MEASURES

4.1 Description of First Aid Management			
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.		
4.2 Most Important Symptoms and E	ffects, Both Acute and Delayed		
Symptoms of Exposure	: Eye Irritation, Nose Irritation, Throat Irritation, Lassitude (Weakness), Dermatitis, Confusion, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Optical Nerve Damage, Cough, Chest Tightness, Chemical Pneumonitis (Aspiration Liquid), Numbness, Mucous Membrane, Diarrhea.		
Delayed Effects	: No known delayed effects.		
mmediate 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, Peripheral Nervous System, 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 MEASL	JRES		
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	Specific Hazards Arising from 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.		



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5.3	Special Protective Act	ons for Fire-Fighters		
	ting Instructions	-	sed containers, as contents can rupture violent!	y from heat developed
		pressure.		
Protect	ion during Firefighting	: Firemen should wear self-contair mode.	ned breathing apparatus with full face-piece ope	erated in positive pressure
SECT	ION 6 - ACCIDENTAL	RELEASE MEASURES		
6.1	Personal Precautions,	Protective Equipment and Emergency P	rocedures	
For Nor	n-Emergency Personnel	: No action should be taken involv	ing any personnel without suitable training. Eva	cuate surrounding areas.
			ed personnel from entering. Do not touch or wa quate ventilation only if it is safe to do so.	lk through spill. Remove
For Em	ergency Personnel	: Use personal protection as recon personnel above.	nmended in Section 8. Observe precautions prov	ided for non-emergency
6.2	Environmental Precau	tions		
Environ	mental Precautions	: Keep out of drains, sewers, ditch contamination.	es, and waterways. Minimize use of water to pro	event environmental
6.3	Methods and Materia	ls for Containment and Cleaning up		
Contair	ment Procedures	: Released content may be contair	ned with oil/solvent absorbent pads, booms, and	l/or absorbents.
Cleanu	p Procedures	: Remove sources of ignition and u place in safety containers for pro	ıse non-sparking equipment. Soak up material w per disposal.	vith inert absorbent and
Other I	nformation		Response Guidebook or similar resources provid dents, spills, leaks, and/or fires involving dange	
Prohibi	ted Materials	: Combustible absorbent material	such as sawdust. Use of equipment that may ca	use sparking.
SECT	ION 7 - HANDLING A	ND STORAGE		
7.1	Precautions for Safe H	andling		
Genera	I Handling Precautions	: KEEP OUT OF THE REACH OF CHI	LDREN. When using in spray application, confor	mance to NFPA 33 Spray
Hygion	e Recommendations		d Combustible Materials is recommended. using this product. Wash hands thoroughly afte	or use Remove contaminated
пувісні	Recommendations		nt before entering eating or smoking areas.	
7.2	Conditions for Safe St	orage Including Any Incompatibilities		
Storage	Requirements		should conform to NFPA 30 Flammable and Com	
			red in a well-ventilated place. Keep away from s e. Do not store in open or unlabelled containers	
Incomp	atibilities	: Segregate storage away from me	terials indicated in Section 10.	
SECT	ION 8 - EXPOSURE C	ONTROLS / PERSONAL PROTECTIC	N	
8.1	Control Parameters			
	cetate (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) (mg/m³)	1400 mg/m³
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/m³
California	California PEL (TWA) (ppm)	400 ppm
Toluene (108-88-3)		
ACGIH	ACGIH TWA (mg/m³)	20 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	150 ppm



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oluene (108-88-3)		300
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/m ³
California	California PEL (TWA) (ppm)	10 ppm
California	California PEL (STEL) (mg/m3)	560 mg/m³
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
Xylene (1330-20-7)		
ACGIH	ACGIH TWA (mg/m³)	100 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	150 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
NIOSH	US IDLH (ppm)	900 ppm
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (TWA) (ppm)	150 ppm
California	California PEL (TWA) (mg/m3)	435 mg/m ³
California	California PEL (TWA) (ppm)	100 ppm
California	California PEL (TWA) (pph) California PEL (STEL) (mg/m3)	655 mg/m ³
California	California PEL (STEL) (http://isj	150 ppm
California	California PEL (STEL) (ppm) California PEL (Ceiling) (ppm)	300 ppm
Biological Exposure Index	Methylhippuric Acid in Urine (Post Shift), End of shift	1.5 g/g creatinine
- ·		1.5 g/g creatinine
Ethyl Benzene (100-41-4)		
ACGIH	ACGIH TWA (mg/m³)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
NIOSH	US IDLH (ppm)	800 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	435 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	545 mg/m³
NIOSH	NIOSH REL (STEL) (ppm)	125 ppm
California	California PEL (TWA) (mg/m3)	22 mg/m³
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
Solvent Naphtha (Petroleum), Lig	ght Aliphatic (64742-89-8)	
OSHA	OSHA PEL (TWA) (mg/m³)	2000 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
California	California PEL (TWA) (mg/m3)	1350 mg/m ³
California	California PEL (TWA) (ppm)	300 ppm
California	California PEL (STEL) (mg/m3)	1800 mg/m ³
California	California PEL (STEL) (ppm)	400 ppm
Methyl Acetate (79-20-9)		
ACGIH	ACGIH TWA (mg/m³)	200 ppm
ACGIH	ACGIH TWA (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) (mg/m ³)	610 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	760 mg/m³



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Methyl Acetate (79-20-9)		
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
-		
sopropyl Alcohol (67-63-0		
ACGIH	ACGIH TWA (mg/m³)	200 ppm
ACGIH	ACGIH Ceiling (mg/m³)	400 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
NIOSH	US IDLH (ppm)	2000 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	980 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
NIOSH	NIOSH REL (STEL) (mq/m ³)	1225 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	500 ppm
California	California PEL (TWA) (mg/m3)	980 mg/m ³
California	California PEL (TWA) (ppm)	400 ppm
California	California PEL (TWA) (ppm) California PEL (STEL) (mg/m3)	1225 mg/m ³
California	California PEL (STEL) (mg/ms)	500 ppm
cuijorniu		500 ppm
Secondary Butyl Alcohol (78-92-2)	
ACGIH	ACGIH TWA (mg/m³)	100 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	450 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	150 ppm
NIOSH	US IDLH (ppm)	2000 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	0 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
California	California PEL (TWA) (mg/m3)	305 mg/m ³
California	California PEL (TWA) (ppm)	100 ppm
California	Canjornia PEL (TWA) (ppm)	100 ppm
N-Heptane (142-82-5)		
ACGIH	ACGIH TWA (mg/m³)	400 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	2000 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
NIOSH	US IDLH (ppm)	750 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	350 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	85 ppm
NIOSH	NIOSH REL (ceiling) (mg/m ³)	1800 mg/m ³
NIOSH	NIOSH REL (ceiling) (ng/m)	440 ppm
California	California PEL (TWA) (mg/m3)	1600 mg/m ³
California California	California PEL (1WA) (mg/m3) California PEL (TWA) (ppm)	
		400 ppm
California California	California PEL (STEL) (mg/m3)	2000 mg/m ³
California	California PEL (STEL) (ppm)	500 ppm
Octane (111-65-9)		
ACGIH	ACGIH TWA (mg/m³)	300 ppm
Stoddard Solvent (8052-4	•	
ACGIH	ACGIH TWA (mg/m³)	100 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	2900 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
California	California PEL (TWA) (mg/m3)	525 mg/m³
California	California PEL (TWA) (ppm)	100 ppm
N Hoveno (110 54 2)		
N-Hexane (110-54-3)		
ACGIH	ACGIH TWA (mg/m ³)	50 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	500 ppm
NIOSH	US IDLH (ppm)	1100 ppm



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N-Hexane (110-54-3)				
NIOSH	NIOSH REL (TWA) (mg/m³)	180 mg/m³		
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm		
California	California PEL (TWA) (mg/m3)	180 mg/m ³		
California	California PEL (TWA) (ppm) 50 ppm			
Biological Exposure Index	2,5-Hexanedion in urine (without hydrolosis), End of shift at end of workweek	0.4 mg/l		
8.2 Exposure Controls				
Engineering Measures	: Use only with adequate ventilation. General ventilation (typically 10 Ventilation rates should be matched to conditions. Local exhaust ve may be necessary to control air contamination below that of the low	ntilation or an enclosed handling system		
Personal Protective Equipment				
Eye / Face Protection	: Safety glasses with side shields are recommended as a minimum for any type of industrial chemical hand. Where eye contact with this material could occur, chemical splash proof aggales 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 prolor or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.			
Respiratory Protection	expected to exceed occupational exposure limits. Under those circun either a half-facepiece (if wearing safety glasses) or a full-facepiece	: An approved respirator may be permissible under certain circumstances where airborne concentrations ar expected to exceed occupational exposure limits. Under those circumstances, users should be provided wit 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 nece	: 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 wo used.	: Safety showers and eye-wash stations should be available in the workplace near where the material will be		
Environmental Exposure Controls	mental Exposure Controls : Avoid release to the environment.			

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties

Boiling Point	> 55.80 ℃	Melting / Freezing Point	> -142.00 °C
Flash Point, Liquid	> -17.00 °C		
Explosive Limits	LEL: 0.50 UEL: 40.00 vol %	Autoignition Temperature, Liquid	> 190.00 °C
Flammability	Highly Flammable Liquid	Density	0.800 g/cm ³
Molecular Weight	Not Available	Weight	6.676 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	Liquid	Heat Of Combustion	Not Available
Appearance / Color	Clear, Colorless	Water Solubility	Not Available
Odor	Paint-like	Decomposition Temperature	Not Available

9.2 Environmental Properties				
Percent Volatile	69.44 % wt	VOC Regulatory	514.51 g/L (4.29 lbs/gal)	
Percent VOC	55.14 % wt	VOC Actual	441.12 g/L (3.68 lbs/gal)	
Percent HAP	8.23 % wt	HAP Content	65.84 g/L (0.55 lbs/gal)	
Global Warming Potential	0.02 GWP	Maximum Incremental Reactivity	1.0640 g O3/g	
Ozone Depletion Potential	0.00 ODP			

SECTION 10 - STABILITY AND REACTIVITY



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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 Reaction	ns
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, Hydrogen Peroxide, Magnesium, Sulfuric Acid, Perchloric Acid, Nitrating Agents, Chlorosulfuric Acid, Chlorine, Potassium Chlorate, Dinitrogen Tetroxide, Chlorine Dioxide, Organic Peroxides, Heavy Metals and their Salts, Phenols, Performic Acid.
10.6 Hazardous Decomposition Produ	ucts
Thermal Decomposition	: Oxides of carbon, Aldehydes, Formaldehyde, Methanol, Acetic Acid, Peroxybenzoic Acid, Benzoic Acid.
SECTION 11 - TOXICOLOGICAL INF	ORMATION
11.1 Information on Toxicological Effe	ects
Ethyl Acetate (CAS: 141-78-6 / EC: 205-500-4)	
LD50 Oral (Rat)	5620 mg/kg (PTECS)
	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.)
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)
Ethyl Benzene (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)
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)
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)



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	5045 // (DTECC)			
LD50 Oral (Rat)	5045 mg/kg (RTECS)			
LD50 Dermal (Rabbit)	12870 mg/kg (ChemInfo)			
LC50 Inhalation (Rat)	73 mg/l/4h (Lit.)			
LC50 Inhalation (Rat)	17000 ppm/4h (ChemInfo)			
Secondary Butyl Alcohol (CAS: 78-92-2 / EC: 201-	•			
LD50 Oral (Rat)	2193 mg/kg (RTECS)			
LD50 Dermal (Rat)	> 2000 mg/kg (RTECS)			
N-Heptane (CAS: 142-82-5 / EC: 205-563-8)				
LD50 Oral (Rat)	15000 mg/kg (Cheminfo)			
LD50 Dermal (Rabbit)	> 3160 mg/kg (Lit.)			
LC50 Inhalation (Rat)	25132 mg/l/4h 103 gm/m	3 (RTECS)		
Hydrotreated Light Petroleum Naphtha (CAS: 64	742-49-0 / EC: 265-151-9)			
LD50 Oral (Rat)	> 5800 mg/kg (External SD			
LD50 Dermal (Rabbit)	> 2920 mg/kg (External SD	· · · · · · · · · · · · · · · · · · ·		
LC50 Inhalation (Rat)	> 23 mg/l/4h (External SDS			
Hydrotreating Light Process Distillate (CAS: 6841	10-97-9 / FC· 270 002 21			
LD50 Oral (Rat)	5170 mg/kg (RTECS)			
LC50 Inhalation (Rat)	> 12408 ppm/4h (RTECS)			
. ,	> 12+00 ppm, +n (n12c3)			
Octane (CAS: 111-65-9 / EC: 203-892-1)				
LD50 Oral (Rat)	dose))	t (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral (one		
LD50 Dermal (Rabbit)	Dermal)	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal)		
LC50 Inhalation (Rat)	> 24.88 mg/l (Equivalent o (vapours))	r similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation		
Stoddard Solvent (CAS: 8052-41-3 / EC: 232-489-	3)			
LD50 Oral (Rat)	> 5000 mg/kg (RTECS)			
N-Hexane (CAS: 110-54-3 / EC: 203-777-6)				
LD50 Oral (Rat)	29700 mg/kg (RTECS)			
LD50 Dermal (Rabbit)	> 3350 mg/kg body weight	(ChemInfo)		
LC50 Inhalation (Rat)	38500 ppm/4h (ChemInfo)			
Routes Of Exposure		n 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 irritatio	ın.		
Respiratory or Skin Sensitization	: Not classified			
Germ Cell Mutagenicity	: May cause genetic defects			
Reproductive Toxicity	: Suspected of damaging fer			
STOT-Single Exposure	: May cause drowsiness or c	lizziness.		
STOT-Repeated Exposure	: May cause damage to org	ans through prolonged or repeated exposure.		
Aspiration Hazard	: May be fatal if swallowed			
Carcinogen Data		are listed as known or suspected carcinogens:		
2				
	Ethyl Benzene (CAS: 100-			
	IARC group ACGIH Category	2B - Possibly Carcinogenic to Humans A3 - Confirmed animal carcinogen with unknown relevance to human		



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thyl 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 O _z /g substance
Chemical Oxygen Demand	1.69 g O_2/g substance
Theoretical Oxygen Demand	1.82 g O_2/g substance
Biodegration	100 % 28 Days
BCF Fish	30
Log Pow	0.73
Bioacculative Potential	Low potential for bioaccumulation (BCF < 500).
Log Кос	0.778
-	
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 O ₂ /g substance
Theoretical Oxygen Demand	3.13 g O₂/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	$1.40 - 2.53 \text{ g } O_2/\text{g substance}$
Chemical Oxygen Demand	$2.56 - 2.91 \text{ g } O_2/\text{g substance}$
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 Koc	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	$3.17 \text{ g } O_2/\text{g substance}$
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 Aliphati	r (64742-89-8)
solvent Nupritina (retroieuni), Light Aliphuti	<i>Expected to be readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.</i>



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Biodegration	95 % 28 Days
Log Kow	2.1
Bioacculative Potential	Low potential for bioaccumulation (Log Kow < 4).
Methyl Acetate (79-20-9)	
.C50 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
-	
Isopropyl Alcohol (67-63-0)	
LC50 Fish	9640 - 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system,
	Fresh water, Experimental value, Lethal)
LC50 Fish	9640 mg/l Fathead Minnow - 96h
EC50 Daphnia	13299 mg/l Water Flea - 48hr
EC50 Other Aquatic Organisms	> 2000 mg/l Green Algae - 72hr
Persistence and Degradibility	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical Oxygen Demand	1.19 g O₂/g substance
Chemical Oxygen Demand	2.23 g O₂/g substance
Theoretical Oxygen Demand	2.4 g O_2/g substance
Biodegration	95 % 21 DAY
BCF Fish	-2
Log Pow	0.05 (Weight of evidence approach, 25 °C)
Bioacculative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	1.4
Secondary Butyl Alcohol (78-92-2)	
LC50 Fish	3670 mg/l Fathead Minnow - 96h
EC50 Daphnia	4227 mg/l Water Flea - 48hr
Persistence and Degradibility	Biodegradability 88% / 28 days.
Biochemical Oxygen Demand	1.87 g O_2/g substance
Chemical Oxygen Demand	2.47 g O ₂ /g substance
Theoretical Oxygen Demand	2.59 g O_2/g substance
Log Pow	0.61 (Experimental value)
Bioacculative Potential	Low potential for bioaccumulation (Log Kow < 4).
n-Heptane (142-82-5)	
LC50 Fish	375 mg/l 96h, Mozambique Tilapia (Lit.)
EC50 Daphnia	0.2 mg/l 48h, Leach (Lit.)
Persistence and Degradibility	Readily biodegradable in water. Biodegradability in soil: no data available. Adsorbs into the soil.
Biochemical Oxygen Demand	1.92 g O_2/g substance
Chemical Oxygen Demand	0.06 g O ₂ /g substance
Theoretical Oxygen Demand	3.52 g O ₂ /g substance
Log Pow	4.66 (Experimental value)
Bioacculative Potential	Potential for bioaccumulation ($4 \ge Log$ Kow ≤ 5).
Hydrotreated Light Petroleum Naphtha (64742	-49-0)
LC50 Fish	4.1 mg/l Fathead Minnow - 96h
EC50 Daphnia	10 mg/l Water Flea - 48hr
EC50 Daprinia EC50 Other Aquatic Organisms	10 mg/l Green Algae - 72hr
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LC50 Fish	2.587 mg/l (96 h, Oncorhynchus mykiss, Fresh water, QSAR)
C50 Daphnia 0.38 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor ej	
Persistence and Degradibility	Biodegradable in the soil. Readily biodegradable in water.
Theoretical Oxygen Demand	3.5 g O ₂ /g substance
BCF Fish	776 - 5129 (Pisces, Literature study)
BCF Other Aquatic Organisms	198.7 (105 minutes, Mytilus edulis, Static system, Salt water, Experimental value, Fresh weight)
Log Pow	5.18 (Experimental value)
Bioacculative Potential	High potential for bioaccumulation (BCF > 5000).
Log Koc	2.64 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Stoddard Solvent (8052-41-3)	
LC50 Fish	Rainbow Trout - 96hr
Log Pow	3.16-7.06
Log Кос	log Koc,2.85-6.74
n-Hexane (110-54-3)	
LC50 Fish	2.5 mg/l Fathead Minnow - 96h
EC50 Daphnia	3878 mg/l Water Flea - 48hr
Theoretical Oxygen Demand	$3.52 \text{ g } O_2/\text{g substance}$
BCF Fish	501.187 (BCF; Other; Pimephales promelas)
Log Pow	3.9
Bioacculative Potential	Potential for bioaccumulation ($500 \le BCF \le 5000$).
Log Koc	2.17

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 Number		:	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
EmS Coo	le	:	Not Applicable	Not Applicable	F-E, S-E



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4.4 Packing Group	DOT (USA)	IATA (AIR)	IMDG (OCEAN)	
acking Group	: 11	11	11	
14.5 Environmental Hazards	DOT (USA)	IATA (AIR)	IMDG (OCEAN)	
Aarine Pollutant	: No	No	No	
14.6 Special Precautions				
Precautions	: None Identified			
14.7 Transport in Bulk				
Remarks	: Not applicable for product as sup	plied		
SARA Section 313		ing requirements of Section 313 or Title III of the	Superfund Amendments	
SARA Section 313	: Chemical(s) subject to the report and Reauthorization Act (SARA) (Toluene		Superfund Amendments 0.1 - 1%	
SARA Section 313	and Reauthorization Act (SARA)	of 1986 and 40 CFR Part 372.		
SARA Section 313	and Reauthorization Act (SARA) (Toluene	of 1986 and 40 CFR Part 372. CAS-No. 108-88-3	0.1 - 1%	
SARA Section 313	and Reauthorization Act (SARA) (Toluene Xylene	of 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7	0.1 - 1%	
SARA Section 313	and Reauthorization Act (SARA) o Toluene Xylene Ethyl Benzene	of 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 100-41-4	0.1 - 1% 1 - 5% 0.3685%	
GARA Section 313	and Reauthorization Act (SARA) of Toluene Xylene Ethyl Benzene Chlorobenzene	of 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 100-41-4 CAS-No. 108-90-7	0.1 - 1% 1 - 5% 0.3685% 0.001 - 0.01%	
GARA Section 313	and Reauthorization Act (SARA) of Toluene Xylene Ethyl Benzene Chlorobenzene Cumene	Df 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 100-41-4 CAS-No. 108-90-7 CAS-No. 98-82-8	0.1 - 1% 1 - 5% 0.3685% 0.001 - 0.01% 0.001 - 0.01%	
GARA Section 313	and Reauthorization Act (SARA) of Toluene Xylene Ethyl Benzene Chlorobenzene Cumene Isopropyl Alcohol	Df 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 100-41-4 CAS-No. 108-90-7 CAS-No. 98-82-8 CAS-No. 67-63-0	0.1 - 1% 1 - 5% 0.3685% 0.001 - 0.01% 0.001 - 0.01% 10 - 30%	
ARA Section 313	and Reauthorization Act (SARA) of Toluene Xylene Ethyl Benzene Chlorobenzene Cumene Isopropyl Alcohol Secondary Butyl Alcohol	Df 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 100-41-4 CAS-No. 108-90-7 CAS-No. 108-90-7 CAS-No. 67-63-0 CAS-No. 78-92-2	0.1 - 1% 1 - 5% 0.3685% 0.001 - 0.01% 0.001 - 0.01% 10 - 30% 1 - 5%	
ARA Section 313	and Reauthorization Act (SARA) of Toluene Xylene Ethyl Benzene Chlorobenzene Cumene Isopropyl Alcohol Secondary Butyl Alcohol Benzene	of 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 1330-20-7 CAS-No. 100-41-4 CAS-No. 108-90-7 CAS-No. 98-82-8 CAS-No. 67-63-0 CAS-No. 78-92-2 CAS-No. 71-43-2	0.1 - 1% 1 - 5% 0.3685% 0.001 - 0.01% 0.001 - 0.01% 10 - 30% 1 - 5% 0.001 - 0.01%	
ARA Section 313	and Reauthorization Act (SARA) of Toluene Xylene Ethyl Benzene Chlorobenzene Cumene Isopropyl Alcohol Secondary Butyl Alcohol Benzene Naphthalene	of 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 1330-20-7 CAS-No. 100-41-4 CAS-No. 108-90-7 CAS-No. 98-82-8 CAS-No. 67-63-0 CAS-No. 78-92-2 CAS-No. 71-43-2 CAS-No. 91-20-3	0.1 - 1% 1 - 5% 0.3685% 0.001 - 0.01% 0.001 - 0.01% 10 - 30% 1 - 5% 0.001 - 0.01% 0.001 - 0.01%	
ARA Section 313	and Reauthorization Act (SARA) of Toluene Xylene Ethyl Benzene Chlorobenzene Cumene Isopropyl Alcohol Secondary Butyl Alcohol Benzene Naphthalene Methanol	of 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 100-41-4 CAS-No. 100-41-4 CAS-No. 108-90-7 CAS-No. 98-82-8 CAS-No. 67-63-0 CAS-No. 71-43-2 CAS-No. 91-20-3 CAS-No. 67-56-1	0.1 - 1% 1 - 5% 0.3685% 0.001 - 0.01% 0.001 - 0.01% 10 - 30% 1 - 5% 0.001 - 0.01% 0.001 - 0.01% 0.001 - 0.1%	
SARA Section 313 TSCA Section 12(b)	and Reauthorization Act (SARA) of Toluene Xylene Ethyl Benzene Chlorobenzene Cumene Isopropyl Alcohol Secondary Butyl Alcohol Benzene Naphthalene Methanol n-Hexane cyclohexane	of 1986 and 40 CFR Part 372. CAS-No. 108-88-3 CAS-No. 1330-20-7 CAS-No. 1330-20-7 CAS-No. 100-41-4 CAS-No. 108-90-7 CAS-No. 98-82-8 CAS-No. 67-63-0 CAS-No. 78-92-2 CAS-No. 71-43-2 CAS-No. 71-43-2 CAS-No. 71-43-2 CAS-No. 110-54-3 CAS-No. 110-54-3 CAS-No. 110-82-7	0.1 - 1% 1 - 5% 0.3685% 0.001 - 0.01% 0.001 - 0.01% 10 - 30% 1 - 5% 0.001 - 0.01% 0.001 - 0.01% 0.01 - 0.1% 5 - 10% 0.1 - 1%	

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		
Ethyl Acetate	CAS-No. 141-78-6	5000 lb

Ethyl Acetate	CAS-No. 141-78-6	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
Methanol	CAS-No. 67-56-1	5000 lb
n-Hexane	CAS-No. 110-54-3	5000 lb
cyclohexane	CAS-No. 110-82-7	1000 lb
Isobutyl Acetate	CAS-No. 110-19-0	5000 lb

15.2 **State Regulations**

California Proposition 65

: This product contains, or may contain, substance(s) known to the State of California to cause cancer,



Part No. See Section 1.1 (Liquid)

Per-Fix[™] for Styrene and Polycarbonate

Print Date: 02/07/2020 Revision Date: 7/2/2020 Supersedes Date: 6/2/2020 Issue Date: 2/18/2002 Version: 10.0 (EN)-US Page: 15/16

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developmental and/or reproductive harm.

Ethyl Benzene (100-41-4)	Cancer	Yes	0.3685 %
Cumene (98-82-8)	Cancer	Yes	0.0072 %
Benzene (71-43-2)	Cancer	Yes	0.0072 %
Naphthalene (91-20-3)	Cancer	Yes	0.0032 %
Toluene (108-88-3)	Developmental Toxicity	Yes	0.5725 %
Benzene (71-43-2)	Developmental Toxicity	Yes	0.0072 %
Methanol (67-56-1)	Developmental Toxicity	Yes	0.0227 %
n-Hexane (110-54-3)	Reproductive Toxicity, Male	Yes	5.1566 %
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

ine joine wing energies (3) appear on one of more sta	te fink (night to know) hots us maleated		
Ethyl Acetate (141-78-6)	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 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)			
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		
Isopropyl Alcohol (67-63-0)	U.S New Jersey - Right to Know Hazardous Substance List		
Secondary Butyl Alcohol (78-92-2)	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		
n-Heptane (142-82-5)	U.S New Jersey - Right to Know Hazardous Substance List		
Methanol (67-56-1)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List		
Stoddard Solvent (8052-41-3)	U.S New Jersey - Right to Know Hazardous Substance List		
n-Hexane (110-54-3)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List		
cyclohexane (110-82-7)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List		
Isobutyl Acetate (110-19-0)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List		

SECTION 16 - OTHER INFORMATION



Part No. See Section 1.1 (Liquid)

Per-Fix[™] for Styrene and Polycarbonate

Print Date: 02/07/2020 Revision Date: 7/2/2020 Supersedes Date: 6/2/2020 Issue Date: 2/18/2002 Version: 10.0 (EN)-US Page: 16/16

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Disclaimer of Liability

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