

Per-Fix™ for Vinyl

Part No. See Below Aerosol

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SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product Name : Per-Fix[™] for Vinyl

Manufacturer Product Number : 6405AAA, 6405AA, 6405B, 6405C

1.2 Other Means Of Identification

Other Identifiers : Flaw Repair

1.3 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Recommended Use : Touch-up coating for molded plastic parts

Restrictions On Use : None Identified

1.4 Supplier Details

Manufacturer Details Supplier Details

Company Name : Chem-Pak Inc Chem-Pak Inc

Address : 242 Corning Way, Martinsburg, WV 25405 - United 242 Corning Way, Martinsburg, WV 25405 -

States

 Phone Number
 : 304-262-1880
 304-262-1880

 Fax Number
 : 302-262-9643
 302-262-9643

 Email
 : msds@chem-pak.com

 Website
 : http://www.chem-pak.com

1.5 24 Hr Emergency Phone Number

Emergency Number : 800-255-3924 (Chem-Tel)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification Of The Substance Or Mixture

Flammable Aerosols, Category 1 : Extremely flammable aerosol

Gases Under Pressure : Dissolved Gas : Contains gas under pressure; may explode if heated

Serious Eye Damage/Eye Irritation, Category 2 : Causes serious eye irritation
Carcinogenicity, Category 2 : Suspected of causing cancer

Reproductive Toxicity, Category 2 : Suspected of damaging fertility or the unborn child

Specific Target Organ Toxicity — Single Exposure,

Category 3, Narcosis

: May cause drowsiness or dizziness

Specific Target Organ Toxicity — Repeated

Exposure, Category 2

: May cause damage to organs through prolonged or repeated exposure

Hazardous To The Aquatic Environment — Acute

Hazardous To The Ad Hazard, Category 3 : Harmful to aquatic life

2.2 Label Elements

Hazard Pictograms









United States

GHS07

GHS08

Signal Word : Danger

Hazard Statements : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging

fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life.



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Preautionary Statements

: Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and eye protection. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call physician if you feel unwell. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to local regulations.

2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : None Identified.

2.4 Unknown Acute Toxicity

29.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
29.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
32.56% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Not Applicable

3.2 Mixture

Ingredient	Cas Number	%	Classification*
Ethyl Acetate	141-78-6	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Methyl Ethyl Ketone	78-93-3	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Propane	74-98-6	10 - 30	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Xylene	1330-20-7	10 - 30	Flam. Liq. 2, H225 Aquatic Acute 2, H401
N-Butane	106-97-8	5 - 10	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Isobutane	75-28-5	5 - 10	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Light Aromatic Solvent Naphtha	64742-95-6	1 - 5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 3, H402
Ethyl Benzene	100-41-4	1-5	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
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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Ingredient	Cas Number	%	Classification*
2-Butoxyethanol	111-76-2	0.1 - 1	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315

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

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 : IF exposed or concerned: 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.

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

advice/attention.

Ingestion : Call a poison center or a doctor if you feel unwell.

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

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

4.2 Most Important Symptoms And Effects, Both Acute And Delayed

Eye Contact : Eye irritation.

Skin Contact : Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying or

flaking skin. May cause more severe response if confined to skin. . Irritation.

Ingestion : Due to being an aerosol, the product does not lend itself to ingestion. Should ingestion occur, it may

cause irritation to membranes of the mouth, thorat, and gastrointestinal tract resulting in vomiting and/or cramps. Aspriation of vomit into the lungs may cause inflammation, and possible chemical

pneumonitis, bronchopneumonia, or pulmonary edema.

Inhalation : Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute

nervous system depression characterized by headache, dizziness, staggering gait, confusion or death.

Irritation of the mucous membranes, coughing, and dyspnea are also possible.

4.3 Indication Of Immediate Medical Attention And Special Treatment

 Notes To Physician
 : Treat symptomatically.

 Specific Treatments/Antidotes
 : No Information Available.

 Immediate Medical Attention
 : No Information Available.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Extinguishing Media : Water, carbon dioxide, dry chemical, universal aqueous film forming foam.

Unsuitable Media : Water jet.

5.2 Specific Hazards Arising From The Chemical Or Mixture

Decomposition Products : Decomposition products may include: oxides of carbon, smoke, vapors.

Hazards From The Product : Extremely flammable. Contents under pressure. 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 ignition an source.

5.3 Special Protective Actions For Fire-Fighters

Protective Actions : Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat

developed pressure.

Protective Equipment : Firemen should wear self-contained breathing apparatus with full face-piece operated in positive

pressure mode.



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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 Responders : Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency

personnel above.

6.2 Environmental Precautions

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. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended.

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

n-Butane (106-97-8)	n-Butane (106-97-8)		
ACGIH	ACGIH TWA (ppm)	1000 ppm	
NIOSH	NIOSH REL (TWA) (mg/m³) 1900		
NIOSH	NIOSH REL (TWA) (ppm)	800 ppm	
California	California PEL (TWA) (mg/m3)	1900 mg/m³	
California	California PEL (TWA) (ppm)	800 ppm	

Propane (74-98-6)		
OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m³



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OSHA OSH REL (TWA) (ppm) 1000 ppm NIOSH NIOSH REL (TWA) (mym²) 1800 mg/m² NIOSH NIOSH REL (TWA) (ppm) 1000 mg/m² NIOSH NIOSH REL (TWA) (mym²) 1000 mg/m² Colifornia California PEL (TWA) (mg/m²) 1000 mg/m² Colifornia California PEL (TWA) (mg/m²) 1000 mg/m² KOSH ACGH TYMA (mg/m²) 1900 mg/m² NIOSH NIOSH REL (TWA) (mg/m²) 1900 mg/m² NIOSH NIOSH REL (TWA) (mg/m²) 1900 mg/m² NIOSH NIOSH REL (TWA) (mg/m²) 1900 mg/m² NIOSH ACGH TYMA (ppm) 400 ppm OSHA CENTAN (mg/m²) 400 ppm Colifornia OSHA PEL (TWA) (mg/m²) 400 ppm Colifornia OSHA PEL (TWA) (ppm) 400 ppm Colifornia Oshigan (mg/m²) 400 ppm Colifornia ACGH TYA (ppm) 200 ppm	Propane (74-98-6)		
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		Toluene in blood, Prior to last shift of workweek	0.02 mg/l
o Crocol in uring (with hydrolysis) End of shift (B)	BEI	Toluene in urine, End of shift	0.03 mg/l
BEI 0 -Cresor in unite (with hydrolysis), End of shift (B) 0.3 mg/g creatinine	BEI	o-Cresol in urine (with hydrolysis), End of shift (B)	0.3 mg/g creatinine



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Xylene (1330-20-7)		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
California	California PEL (TWA) (mg/m3)	435 mg/m³
California	California PEL (TWA) (ppm)	100 ppm
California	California PEL (STEL) (mg/m3)	655 mg/m³
California	California PEL (STEL) (ppm)	150 ppm
California	California PEL (Ceiling) (ppm)	300 ppm

Ethyl Benzene (100-41-4)	Ethyl Benzene (100-41-4)			
ACGIH	ACGIH TWA (ppm)	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		
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		

Light Aromatic Solvent Naphtha (64742-95-6)

Not applicable

2-Butoxyethanol (111-76-2)				
ACGIH	ACGIH TWA (ppm)	20 ppm		
OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m³		
OSHA	OSHA PEL (TWA) (ppm) 50 ppm			
NIOSH	US IDLH (ppm)	700 ppm		
NIOSH	NIOSH REL (TWA) (ppm)	5 ppm		
California	California PEL (TWA) (mg/m3) 97 mg/m³			
California	California PEL (TWA) (ppm)	20 ppm		
BEI	Butoxyacetic Acid (BAA) in Urine, End of shift	200 mg/g creatinine		

8.2 Exposure Controls

Skin Protection

Eye/Face Protection

Other Protective Equipment

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.

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. If respirators are needed, in the United States compliance with OSHA standard 29 CFR 1910.134 is necessary.

 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

prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listi in Section 2.

: 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

: Safety showers and eye-wash stations should be available in the workplace near where the material will be used.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties

Boiling Point $> 57.00 \,^{\circ}\text{C}$ Flash Point, Liquid $> -10.00 \,^{\circ}\text{C}$

Explosive Limits LEL: 0.70 UEL: 24.60 vol %
Flammability Extremely Flammable Aerosol

Molecular Weight
Not Available
Vapor Pressure
Not Available
Vapor Density
Not Available
Viscosity
Not Available
Odor Threshold
Physical Form
Pressurized Product
Odor
Paint-like

OdorPaint-likeAppearance / ColorClear, Colorless

Autoignition Temperature, Liquid 227.80 °C Density 0.761 g/cm^3

Weight 6.351 lbs/gal
pH Not Available
Evaporation Rate (nBAc=1) Not Available
Partition Coefficient Not Available
Refractive Index Not Available
Heat Of Combustion Not Available

Water Solubility Not Available

Decomposition Temperature Not Available

9.2 Environmental Properties

 Percent Volatile
 93.30 % wt

 Percent VOC
 92.22 % wt

 Percent HAP
 33.27 % wt

 Global Warming Potential
 2.01 GWP

Ozone Depletion Potential 0.00 ODP

 VOC Regulatory
 754.26 g/L (6.29 lbs/gal)

 VOC Actual
 701.79 g/L (5.86 lbs/gal)

HAP Content 253.18 g/L (2.11 lbs/gal)

Maximum Incremental Reactivity 2.2810 q O3/q

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

Stability : This product is stable.

10.3 Possibility Of Hazardous Reactions

Reactions : Under normal conditions of storage and use, hazardous reactions are not expected to occur.

10.4 Conditions To Avoid

Conditions : Electrostatic Discharge, Other Ignition Sources, Hot Surfaces, Heat, Flames, Sparks.

10.5 Incompatible Materials

Incompatibilities: Strong Oxidizing Agents, Strong Acids, Potassium t-Butoxide, Bases, Calcium Hypochlorite, Acids,Hydrogen Peroxide, Magnesium, Sulfuric Acid, Perchloric Acid, Chlorosulfuric Acid.

10.6 Hazardous Decomposition Products

Products : Oxides of carbon, Aldehydes, Methanol, Acetic Acid.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1.1 Information On Toxicological Effects

n-Butane (106-97-8)	
LC50 Inhalation (Rat)	658 mg/l/4h (Lit.)
LC50 Inhalation (Rat)	276000 ppm/4h (ChemInfo)
Propane (74-98-6)	
LC50 Inhalation (Rat)	658 mg/l/4h (Lit.)



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Isobutane (75-28-5)		
LC50 Inhalation (Rat)	> 13023 ppm/4h (Cheminfo)	
Ethyl Acetate (141-78-6)		
LD50 Oral (Rat)	5620 mg/kg (RTECS)	
LD50 Dermal (Rabbit)	> 18000 mg/kg (Sigma-Aldrich)	
LC50 Inhalation (Rat)	200 g/m³ (RTECS)	
Methyl Ethyl Ketone (78-93-3)		
LD50 Oral (Rat)	2737 mg/kg (Sigma-Aldrich)	
LD50 Dermal (Rabbit)	6480 mg/kg (RTECS)	
LC50 Inhalation (Rat)	205 mg/l/4h (Cheminfo)	
LC50 Inhalation (Rat)	30200 ppm/4h (ChemInfo)	
Toluene (108-88-3)		
LD50 Oral (Rat)	> 2000 mg/kg (Lit.)	
LD50 Dermal (Rabbit)	12124 mg/kg (IUCLID)	
LC50 Inhalation (Rat)	> 20 mg/l/4h (Rat; Literature study)	
Xylene (1330-20-7)		
LD50 Oral (Rat)	4300 mg/kg (RTECS)	
LD50 Dermal (Rabbit)	12126 mg/kg (Sigma-Aldrich)	
LC50 Inhalation (Rat)	6350 ppm/4h (ChemInfo)	
Ethyl Benzene (100-41-4)		
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)	
Light Aromatic Solvent Naphtha (64742-95-6)		
LD50 Oral (Rat)	8400 mg/kg (RTECS)	
LD50 Dermal (Rabbit)	> 3160 mg/kg (ChemInfo)	
LC50 Inhalation (Rat)	3670 ppm/4h (Lit.)	
2-Butoxyethanol (111-76-2)		
LD50 Oral (Rat)	917 mg/kg (RTECS)	
LD50 Dermal (Rabbit)	1060 mg/kg (Sigma-Aldrich)	
LC50 Inhalation (Rat)	3380 mg/m³ (RTECS)	
LC50 Inhalation (Rat)	925 ppm/4h (ChemInfo)	

11.1.2 Health Hazard Classification

Skin Corrosion/Irritation : Not classified

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 : Not classified

Carcinogen Data : The following ingredients are listed as known or suspected carcinogens:

Ethyl Benzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
ACGIH Category	A3 - Confirmed animal carcinogen with unknown relevance to humans
2-Butoxyethanol (111-76-2)	
ACGIH Category	A3 - Confirmed animal carcinogen with unknown relevance to humans



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11.1.3 Information On The Likely Routes Of Exposure

Routes Of Exposure : Eye Contact, Ingestion, Skin Contact, Inhalation, Skin Absorption.

11.1.4 Symptoms Related To The Physical, Chemical And Toxicological Characteristics

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

Dizziness, Narcosis, Drowsiness, Vomiting, Optical Nerve Damage, Chest Tightness, Mucous Membrane.

11.1.5 Delayed And Immediate Effects And Also Chronic Effects From Short And Long Term Exposure

Delayed Effects: No known delayed effects.Immediate Effects: No known immediate effects.Chronic Effects: No chronic effects identified.

Target Organs : Central Nervous System, Eyes, Respiratory System, Skin.

Medical Conditions Aggravated : None identified.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ecology - general : Harmful to aquatic life.

Ethyl Acetate (141-78-6)			
LC50 fish 1	450 - 600 mg/l Rainbow Trout - 96hr		
LC50 fish 2	220 - 250 mg/l Fathead Minnow - 96h		
LC50 other aquatic organisms 1	560 mg/l Water Flea - 48hr		
EC50 Daphnia 1	2300 - 3090 mg/l Water Flea - 24hr		
EC50 other aquatic organisms 1	4300 mg/l Green Algae - 24hr		
Methyl Ethyl Ketone (78-93-3)			
LC50 fish 1	3130 - 3320 mg/l Fathead Minnow - 96h		
EC50 Daphnia 1	7060 mg/l Water Flea - 24hr		
Toluene (108-88-3)			
LC50 fish 1	5.8 mg/l Rainbow Trout - 96hr		
LC50 other aquatic organisms 1	10 mg/l Green Algae - 72hr		
EC50 Daphnia 1	6 mg/l Water Flea - 48hr		
Xylene (1330-20-7)			
LC50 fish 1	3.3 mg/l Rainbow Trout - 96hr		
EC50 Daphnia 1	75.49 mg/l Water Flea - 48hr		
EC50 other aquatic organisms 1	72 mg/l Green Algae - 14d		
Ethyl Benzene (100-41-4)			
LC50 fish 1	4.2 mg/l Rainbow Trout - 96hr		
EC50 Daphnia 1	2.4 mg/l Water Flea - 48hr		
EC50 other aquatic organisms 1	9.68 mg/l Bacteria - 30min		
EC50 other aquatic organisms 2	4.6 mg/l Green Algae - 72hr		
Light Aromatic Solvent Naphtha (64742-95-	Light Aromatic Solvent Naphtha (64742-95-6)		
LC50 fish 1	18 mg/l (LC50)		
EC50 Daphnia 1	21 mg/l (EC50)		
2-Butoxyethanol (111-76-2)			
LC50 fish 1	1490 mg/l Bluegill Sunfish - 96h		
LC50 fish 2	1474 mg/l Rainbow Trout - 96hr		
EC50 Daphnia 1	1698 - 1940 mg/l Water Flea - 24hr		
EC50 other aquatic organisms 1	1840 mg/l Green Algae - 72hr		

12.2 Ecological Properties

n-Butane (106-97-8)	
Persistence and degradability	Readily biodegradable in water.
Log Pow	2.89 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).



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Propane (74-98-6)		
Persistence and degradability	Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.	
BCF fish 1	9 - 25 (BCF)	
Log Pow	2.28 (Calculated)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Isobutane (75-28-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Not applicable (gas).	
BCF fish 1	20 - 52 (BCF)	
BCF other aquatic organisms 1	20 - 52 (BCF)	
Log Pow	2.8 (Experimental value; 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Ethyl Acetate (141-78-6)		
Persistence and degradability	Biodegradability 100% / 28 days.	
Biochemical oxygen demand (BOD)	$0.293 \text{ g } O_2/\text{g substance}$	
Chemical oxygen demand (COD)	1.69 g O ₂ /g substance	
ThOD	1.82 g O₂/g substance	
BCF fish 1	30	
Log Pow	0.73	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Log Koc	0.778	
Methyl Ethyl Ketone (78-93-3)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic	
reisistence und degradability	conditions.	
Biochemical oxygen demand (BOD)	2.03 g O₂/g substance	
Chemical oxygen demand (COD)	2.31 g O₂/g substance	
ThOD	2.44 g O ₂ /g substance	
BOD (% of ThOD)	> 0.5 (5 days; Literature study)	
Log Pow	0.3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Log Koc	Koc,34; Calculated value	
Ecology - soil	Slightly harmful to plants.	
Toluene (108-88-3)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.	
Biochemical oxygen demand (BOD)	2.15 g O₂/g substance	
Chemical oxygen demand (COD)	2.52 g O ₂ /g substance	
ThOD	3.13 g O ₂ /g substance	
BOD (% of ThOD)	0.69	
BCF fish 2	90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)	
Log Pow	2.73 (Experimental value; Other; 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Xylene (1330-20-7)		
Persistence and degradability	Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.40 - 2.53 g O₂/g substance	
Chemical oxygen demand (COD)	2.56 - 2.91 g O₂/g substance	
ThOD	3.1 g O₂/g substance	
BOD (% of ThOD)	0.44 - 0.816	
BCF fish 1	14.1 - 24 (BCF)	
Log Pow	3.15 - 3.3	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Ethyl Benzene (100-41-4)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.	
Biochemical oxygen demand (BOD)	1.44 g O₂/g substance (20d.)	
Chemical oxygen demand (COD)	2.1 g O₂/g substance	
ThOD	3.17 g O₂/g substance	
BOD (% of ThOD)	45.4 (20 days)	
BCF fish 1	1 (BCF; Other; 6 weeks; Oncorhynchus kisutch; Flow-through system; Salt water; Literature study)	
BCF fish 2	15 - 79 (BCF)	
BCF other aquatic organisms 1	4.68 (BCF)	
Log Pow	3.15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	



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Ethyl Benzene (100-41-4)	
Log Koc	log Koc,PCKOCWIN v1.66; 2.71; Calculated value; Koc; PCKOCWIN v1.66; 517.8; Calculated value
Light Aromatic Solvent Naphtha (64742-95-6)	
Persistence and degradability	Readily biodegradable in water.
Log Pow	>3
2-Butoxyethanol (111-76-2)	
Persistence and degradability	Biodegradability 90% / 28 days.
Biochemical oxygen demand (BOD)	0.71 g O₂/g substance
Chemical oxygen demand (COD)	2.2 g O₂/g substance
ThOD	2.305 g O₂/g substance
BOD (% of ThOD)	0.31
Log Pow	0.81 (Experimental value; BASF test; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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 : In the United States, an aerosol container that does not contain a significant amount of liquid would

meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it

must be managed under all applicable RCRA and state regulations.

Landfill Precautions

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

SECTION 14 - TRANSPORTATION INFORMATION

Transportation Information	Ground Transportation (DOT)	Air Transportation (IATA)	Ocean Transportation (IMDG)
Identification Number	UN1950	UN1950	UN1950
Proper Shipping Name	Aerosols, Limited Quantity	Aerosols, Flammable, Limited Quantity	Aerosols, Limited Quantity
Hazard Class(es)	2.1	2.1	2.1
Packaging Group	None	None	None
Limited Quantity	Yes	Yes	Yes
Marine Pollutant	No	No	No
Hazard Labels		2.1 - Flammable gas	

SECTION 15 - REGULATORY INFORMATION

Federal Regulations

Trace Ingredient Disclosure : This products contains this ingredient at at trace amount. This ingredient is known to the State of California to cause cancer.

Cumene CAS #98-82-8 -- 0.0462%



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TSCA Inventory

SARA 313 Reporting

Applicable Federal Regulations

: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

: Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Toluene	CAS-No. 108-88-3	< 1%
Xylene	CAS-No. 1330-20-7	10 - 30%
Ethyl Benzene	CAS-No. 100-41-4	1 - 5%
Chlorobenzene	CAS-No. 108-90-7	< 1%
Cumene	CAS-No. 98-82-8	< 1%

: One or more ingredients are regulated by other Federal Regulations.

Ethyl Acetate (141-78-6)	
CERCLA RQ	5000 lb
Methyl Ethyl Ketone (78-93-3)	
CERCLA RQ	5000 lb
Toluene (108-88-3)	
CERCLA RQ	1000 lb
Xylene (1330-20-7)	
CERCLA RQ	100 lb
CWA Reportable Quantity	100 lb
RCRA Code	U239
Ethyl Benzene (100-41-4)	
CERCLA RQ	1000 lb
CWA Reportable Quantity	1000 lb
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard, Fire hazard, Immediate (acute) health hazard.

2-Butoxyethanol (111-76-2)	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard, Fire hazard, Immediate
	(acute) health hazard.

15.2 State Regulations

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.

Toluene (108-88-3)	
Developmental Toxicity Yes	
No significant risk level (NSRL) 7000	
Ethyl Benzene (100-41-4)	
Ethyl Benzene (100-41-4)	
Ethyl Benzene (100-41-4) Cancer	Yes

State Right-to-Know Lists

: The following ingredients appear on one or more state Right-to-Know lists.

n-Butane (106-97-8)

U.S. - New Jersey - Right to Know Hazardous Substance List

Propane (74-98-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

Isobutane (75-28-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

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



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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

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

Benzaldehyde (100-52-7)

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

SECTION 16 - OTHER INFORMATION

SDS Compliance

: This SDS complies with the below listed regulations only. For SDS that comply with other countries, please contact our Regulatory Department at msds@chem-pak.com.

OSHA Hazard Communication Standard (HCS 2012) 29 CFR 1910.1200

Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Revision 3

Disclaimer Of Liability

: The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

Full text of H-statements

H Code	H Phrase
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
Н332	Harmful if inhaled



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Н336	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