SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name : *Per-Fix™ for Styrene and Polycarbonate*

Manufacturer Product Number : *6500AA, 6500A, 6500B, 6500C*

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 States*	*242 Corning Way, Martinsburg, WV 25405 - United States*
Phone Number	:	*304-262-1880*	*304-262-1880*
Fax Number	:	*304-262-9643*	*304-262-9643*
Email	:	*msds@chem-pak.com*	
Website	:	*http://www.chem-pak.com*	

1.5 24 hr Emergency Phone Number

Emergency Number : *ChemTel for Mexico: 800-099-0731*

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Flam. Aerosol 1	*H222*	*Physical Hazards*	*Flammable aerosols, Category 1*
Skin Irrit. 2	*H315*	*Health Hazards*	*Skin corrosion/irritation, Category 2*
Eye Irrit. 2a	*H319*	*Health Hazards*	*Serious eye damage/eye irritation, Category 2A*
Repr. 2	*H361*	*Health Hazards*	*Reproductive toxicity, Category 2*
Stot Se 3	*H336*	*Health Hazards*	*Specific target organ toxicity — Single exposure, Category 3, Narcosis*
Stot Re 2	*H373*	*Health Hazards*	*Specific target organ toxicity — Repeated exposure, Category 2*
Asp. Tox. 1	*H304*	*Health Hazards*	*Aspiration hazard, Category 1*
Aquatic Acute 2	*H401*	*Environmental Hazards*	*Hazardous to the aquatic environment — Acute Hazard, Category 2*
Aquatic Chronic 2	*H411*	*Environmental Hazards*	*Hazardous to the aquatic environment — Chronic Hazard, Category 2*

2.2 Label Elements

Hazard Pictograms

GHS02 *GHS07* *GHS08* *GHS09*

Signal Word ***Danger***

Hazard Statements

H222 : *Extremely flammable aerosol.*

H304 : *May be fatal if swallowed and enters airways.*

H315 : *Causes skin irritation.*

H319 : *Causes serious eye irritation.*

H336 : *May cause drowsiness or dizziness.*

	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*
	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.*
	P211	: *Do not spray on an open flame or other ignition source.*
	P251	: *Do not pierce or burn, even after use.*
	P260	: *Do not breathe spray.*
	P264	: *Wash hands thoroughly after handling.*
	P271	: *Use only outdoors or in a well-ventilated area.*
	P273	: *Avoid release to the environment.*
	P280	: *Wear protective gloves and eye protection.*
	P301+P310	: *IF SWALLOWED: Immediately call POISON CENTER.*
	P302+P352	: *IF ON SKIN: Wash with plenty of water.*
	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*
	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.*
	P391	: *Collect spillage.*
	P403	: *Store in a well-ventilated place.*
	P410+P412	: *Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*
	P501	: *Dispose of contents/container to applicable regulations*

2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : *None Identified.*

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Mixture

Substance / Mixture : *Mixture*

3.2 Composition

Substance name	CAS Number	% wt*	Classification
Propane	*74-98-6*	*10 - 30*	*Flam. Gas 1, H220* *Press. Gas (Diss.), H280*
Solvent Naphtha (Petroleum), Light Aliphatic	*64742-89-8*	*10 - 30*	*Flam. Liq. 2, H225* *Skin Irrit. 2, H315* *STOT SE 3, H336* *Asp. Tox. 1, H304*
Methyl Acetate	*79-20-9*	*10 - 30*	*Flam. Liq. 2, H225* *Eye Irrit. 2A, H319* *STOT SE 3, H336*

Substance name	CAS Number	% wt*	Classification
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*
Hydrotreated Light Petroleum Naphtha	*64742-49-0*	*5 - 10*	*Flam. Liq. 2, H225* *Asp. Tox. 1, H304* *Aquatic Acute 3, H402* *Aquatic Chronic 3, H412*
Isopropyl Alcohol	*67-63-0*	*5 - 10*	*Flam. Liq. 2, H225* *Eye Irrit. 2A, H319* *STOT SE 3, H336*
N-Heptane	*142-82-5*	*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*
Secondary Butyl Alcohol	*78-92-2*	*1 - 5*	*Flam. Liq. 3, H226* *Eye Irrit. 2A, H319* *STOT SE 3, H335* *STOT SE 3, H336*
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*
Toluene	*108-88-3*	*0.1 - 1*	*Flam. Liq. 2, H225* *Skin Irrit. 2, H315* *Repr. 2, H361* *STOT SE 3, H336* *STOT RE 2, H373* *Asp. Tox. 1, H304* *Aquatic Acute 2, H401*
Ethylbenzene	*100-41-4*	*0.2036*	*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*

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

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

SECTION 4 - FIRST-AID MEASURES

4.1 Description of First-Aid Measures

General Measures : *Call a physician immediately.*

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

Skin Contact : *Wash skin with plenty of water. Take off contaminated clothing. If skin irritation 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 Effects, Both Acute and Delayed

Symptoms of Exposure : *Eye Irritation, Nose Irritation, Throat Irritation, Lassitude (Weakness), Dermatitis, Confusion, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Drowsiness, Vomiting, Optical Nerve Damage, Cough, Chest Tightness, Chemical Pneumonitis (Aspiration Liquid), Numbness, Mucous Membrane, Diarrhea.*

Delayed Effects : *No known delayed effects.*

Immediate Effects : *No known immediate effects.*

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

Target Organs : *Central Nervous System, Eyes, Liver, Nasal Cavity, 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 MEASURES

5.1 Suitable Extinguishing Media

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

Unsuitable Media : *Water jet.*

5.2 Specific Hazards Arising from the Chemical or Mixture

Hazardous Combustion Products : *Decomposition products may include: oxides of carbon, smoke, vapours. See also Section 10.6.*

Specific Hazards During Firefighting : *Extremely flammable. Contents under pressure. In a fire or if heated, a pressure increase will occur which may result in container bursting. Vapours heavier than air may spread along the ground and travel to an ignition source.*

5.3 Special Protective Actions for Fire-Fighters

Firefighting Instructions : *Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure.*

Protection during Firefighting : *Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.*

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel : *No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.*

For Emergency Personnel : *Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.*

6.2 Environmental Precautions

Environmental Precautions : *Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.*

6.3 Methods and Materials for Containment and Cleaning up

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

Cleanup Procedures : *Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.*

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

Prohibited Materials : *Combustible absorbent material such as sawdust. Use of equipment that may cause sparking.*

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

General Handling Precautions : *KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation.*

Hygiene Recommendations : *Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.*

7.2 Conditions for Safe Storage Including Any Incompatibilities

Storage Requirements : *Storage of individual cans should be done in an area below 55°C (120 °F), and away from heat sources. Ensure can is in a secure place to prevent knocking over and accidental rupture.*

Incompatibilities : *Segregate storage away from materials indicated in Section 10.*

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Propane (74-98-6)		
NOM-010-STPS-2014	*VLE-CT (ppm)*	*1000 ppm*

Xylene (1330-20-7)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*435 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*100 ppm*
NOM-010-STPS-1999	*LMPE-CT (mg/m3)*	*655 mg/m³*
NOM-010-STPS-1999	*LMPE-CT (ppm)*	*150 ppm*
NOM-010-STPS-2014	*VLE-PPT (ppm)*	*150 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*100 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*100 ppm*
USA (ACGIH)	*ACGIH Ceiling (mg/m³)*	*150 ppm*
Biological Exposure Index	*Methylhippuric Acid in Urine (Post Shift), End of shift*	*1.5 g/g creatinine*

Ethylbenzene (100-41-4)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*435 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*100 ppm*
NOM-010-STPS-1999	*LMPE-CT (mg/m3)*	*435 mg/m³*
NOM-010-STPS-1999	*LMPE-CT (ppm)*	*125 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*20 ppm*
Biological Exposure Index	*Sum of Mandelic Acid and Phenyl Glyoxylic Acid in Urine, End of shift at end of workweek*	*0.7 g/g creatinine*

Toluene (108-88-3)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*188 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*50 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*20 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*20 ppm*
USA (ACGIH)	*ACGIH Ceiling (mg/m³)*	*150 ppm*
Biological Exposure Index	*Toluene in blood, Prior to last shift of workweek*	*0.02 mg/l*
Biological Exposure Index	*Toluene in urine, End of shift*	*0.03 mg/l*
Biological Exposure Index	*o-Cresol in urine (with hydrolysis), End of shift (B)*	*0.3 mg/g creatinine*

Ethyl Acetate (141-78-6)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*1400 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*400 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*400 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*400 ppm*

Methyl Acetate (79-20-9)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*610 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*200 ppm*
NOM-010-STPS-1999	*LMPE-CT (mg/m3)*	*760 mg/m³*
NOM-010-STPS-1999	*LMPE-CT (ppm)*	*250 ppm*
NOM-010-STPS-2014	*VLE-PPT (ppm)*	*250 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*200 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*200 ppm*
USA (ACGIH)	*ACGIH Ceiling (mg/m³)*	*250 ppm*

Isopropyl Alcohol (67-63-0)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*980 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*400 ppm*
NOM-010-STPS-1999	*LMPE-CT (mg/m3)*	*1225 mg/m³*
NOM-010-STPS-1999	*LMPE-CT (ppm)*	*500 ppm*
NOM-010-STPS-2014	*VLE-PPT (ppm)*	*400 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*200 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*200 ppm*
USA (ACGIH)	*ACGIH Ceiling (mg/m³)*	*400 ppm*

Secondary Butyl Alcohol (78-92-2)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*305 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*100 ppm*
NOM-010-STPS-1999	*LMPE-CT (mg/m3)*	*455 mg/m³*
NOM-010-STPS-1999	*LMPE-CT (ppm)*	*150 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*100 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*100 ppm*

Stoddard Solvent (8052-41-3)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*523 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*100 ppm*
NOM-010-STPS-1999	*LMPE-CT (mg/m3)*	*1050 mg/m³*
NOM-010-STPS-1999	*LMPE-CT (ppm)*	*200 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*100 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*100 ppm*

N-Hexane (110-54-3)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*176 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*50 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*50 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*50 ppm*
Biological Exposure Index	*2,5-Hexanedion in urine (without hydrolosis), End of shift at end of workweek*	*0.4 mg/l*

N-Heptane (142-82-5)		
NOM-010-STPS-1999	*LMPE-PPT (mg/m3)*	*1600 mg/m³*
NOM-010-STPS-1999	*LMPE-PPT (ppm)*	*400 ppm*
NOM-010-STPS-1999	*LMPE-CT (mg/m3)*	*2000 mg/m³*
NOM-010-STPS-1999	*LMPE-CT (ppm)*	*500 ppm*
NOM-010-STPS-2014	*VLE-PPT (ppm)*	*500 ppm*
NOM-010-STPS-2014	*VLE-CT (ppm)*	*400 ppm*
USA (ACGIH)	*ACGIH TWA (mg/m³)*	*400 ppm*

8.2 Exposure Controls

Engineering Measures : *Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.*

Personal Protective Equipment

Eye / Face Protection : *Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.*

Hand Protection : *Chemical-resistant gloves, tested according to EN 374.*

Remarks : *Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.*

Skin and Body Protection : *For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.*

Respiratory Protection : *An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits.*

Compliance : *If needed, wear an appropriate NIOSH approved respirator.*

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

Environmental Exposure Controls : *Avoid release to the environment.*

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties

Boiling Point	*> 56.90 °C*	Melting / Freezing Point	*> -115.00 °C*
Flash Point, Liquid	*> -27.00 °C*	Flash Point, Propellant	*-104.40 °C*
Explosive Limits	*LEL: 0.50 UEL: 24.60 vol %*	Autoignition Temperature, Liquid	*> 190.00 °C*
Flammability	*Extremely Flammable Aerosol*	Density	*0.698 g/cm³*
Molecular Weight	*Not Available*	Weight	*5.825 lbs/gal*
Vapor Pressure	*Not Available*	pH	*Not Available*
Vapor Density	*Not Available*	Evaporation Rate (nBAc=1)	*Not Available*
Viscosity	*Not Available*	Partition Coefficient (Log Pow)	*Not Available*
Odor Threshold	*Not Available*	Refractive Index	*Not Available*
Physical State	*Pressurized Product*	Heat Of Combustion	*15399.28 BTU/lb*
Appearance / Color	*Clear, Colourless*	Water Solubility	*Not Available*
Odor	*Paint-like*	Decomposition Temperature	*Not Available*

9.2 Environmental Properties

Percent Volatile	*90.62 % wt*	VOC Regulatory	*624.29 g/L (5.21 lbs/gal)*
Percent VOC	*79.88 % wt*	VOC Actual	*557.56 g/L (4.65 lbs/gal)*
Percent HAP	*2.27 % wt*	HAP Content	*15.84 g/L (0.13 lbs/gal)*
Global Warming Potential	*0.84 GWP*	Maximum Incremental Reactivity	*0.9580 g O3/g*
Ozone Depletion Potential	*0.00 ODP*		

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity : *No specific test data related to reactivity is available for this products or its ingredients.*

10.2 Chemical Stability

Chemical Stability : *This product is stable.*

10.3 Possibility of Hazardous Reactions

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

10.4 Conditions to Avoid

Conditions to Avoid : *Electrostatic Discharge, Other Ignition Sources, Hot Surfaces, Heat, Flames, Sparks, Strong Heating.*

10.5 Incompatible Materials

Materials to Avoid : *Strong Oxidizing Agents, Strong Reducing Agents, Alkali Metals, Strong Acids, Aluminum, Potassium t-Butoxide, Halogen Compounds, Bases, Acid Anhydrides, Calcium Hypochlorite, Aluminum Chloride, Acids, Magnesium, Sulfuric Acid, Perchloric Acid, Nitrating Agents, Chlorosulfuric Acid, Chlorine, Potassium Chlorate, Dinitrogen Tetroxide, Chlorine Dioxide, Organic Peroxides, Heavy Metals and their Salts, Phenols, Performic Acid.*

10.6 Hazardous Decomposition Products

Thermal Decomposition : *Oxides of carbon, Aldehydes, Methanol, Acetic Acid, Peroxybenzoic Acid, Benzoic Acid.*

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Propane (CAS: 74-98-6 / EC: 200-827-9)	
LC50 Inhalation (Rat)	*658 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)*

Ethylbenzene (CAS: 100-41-4 / EC: 202-849-4)	
LD50 Oral (Rat)	*4720 mg/kg (ChemInfo)*
LD50 Dermal (Rabbit)	*15380 mg/kg (ChemInfo)*
LC50 Inhalation (Rat)	*17.2 mg/l/4h (IUCLID)*
LC50 Inhalation (Rat)	*4000 ppm/4h (ChemInfo)*

Toluene (CAS: 108-88-3 / EC: 203-625-9)	
LD50 Oral (Rat)	*> 2000 mg/kg (Lit.)*
LD50 Dermal (Rabbit)	*12124 mg/kg (IUCLID)*
LC50 Inhalation (Rat)	*> 20 mg/l/4h (Lit.)*

Solvent Naphtha (Petroleum), Light Aliphatic (CAS: 64742-89-8 / EC: 265-192-2)	
LD50 Oral (Rat)	*> 5000 mg/kg (External SDS)*
LD50 Dermal (Rabbit)	*> 2000 mg/kg (External SDS)*
LC50 Inhalation (Rat)	*> 20 mg/l/4h (External SDS)*

Ethyl Acetate (CAS: 141-78-6 / EC: 205-500-4)	
LD50 Oral (Rat)	*5620 mg/kg (RTECS)*
LD50 Dermal (Rabbit)	*> 18000 mg/kg (Sigma-Aldrich)*
LC50 Inhalation (Rat)	*10600 ppm/4h (ChemInfo)*

Methyl Acetate (CAS: 79-20-9 / EC: 201-185-2)	
LD50 Oral (Rat)	*6970 mg/kg (Lit.)*
LD50 Dermal (Rabbit)	*> 5000 mg/kg (RTECS)*
LC50 Inhalation (Rat)	*> 49.28 mg/l/4h (External SDS)*
LC50 Inhalation (Rat)	*16000 - 32000 (ChemInfo)*

Isopropyl Alcohol (CAS: 67-63-0 / EC: 200-661-7)	
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: 201-158-5)	
LD50 Oral (Rat)	*2193 mg/kg (RTECS)*
LD50 Dermal (Rat)	*> 2000 mg/kg (RTECS)*
LC50 Inhalation (Rat)	*48.5 mg/l/4h (Rat)*

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 bodyweight (ChemInfo)*
LC50 Inhalation (Rat)	*38500 ppm/4h (ChemInfo)*

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/m3 (RTECS)*

Hydrotreated Light Petroleum Naphtha (CAS: 64742-49-0 / EC: 265-151-9)	
LD50 Oral (Rat)	*> 5800 mg/kg (External SDS)*
LD50 Dermal (Rabbit)	*> 2920 mg/kg (External SDS)*
LC50 Inhalation (Rat)	*> 23 mg/l/4h (External SDS)*

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

Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure : *See Section 4.2*

Skin Corrosion/Irritation : *Causes skin irritation.*

Eye Damage/Irritation : *Causes serious eye irritation.*

Respiratory or Skin Sensitization : *Not classified*

Germ Cell Mutagenicity : *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.*

Vaporizer : *Aerosol*

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

Ethylbenzene (CAS: 100-41-4 / EC: 202-849-4)	
IARC group	*2B - Possibly carcinogenic to humans*
ACGIH Category	*A3 - Confirmed animal carcinogen with unknown relevance to humans*

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity and Ecological Properties

Propane (74-98-6)	
Persistence and Degradibility	*Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.*
BCF Fish	*9 - 25 (BCF)*
Log Pow	*2.28 (Calculated)*
Bioacculative Potential	*Low potential for bioaccumulation (Log Kow < 4).*

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 O_2/g substance*
Chemical Oxygen Demand	*2.56 - 2.91 g O_2/g substance*
Theoretical Oxygen Demand	*3.1 g O_2/g substance*
BCF Fish	*14.1 - 24 (BCF)*
Log Pow	*3.217*
Bioacculative Potential	*Low potential for bioaccumulation (BCF < 500).*
Log Koc	*3.156*

Ethylbenzene (100-41-4)	
LC50 Fish	*4.2 mg/l Rainbow Trout - 96hr*
EC50 Daphnia	*2.4 mg/l Water Flea - 48hr*
EC50 Other Aquatic Organisms	*9.68 mg/l Bacteria - 30min*
EC50 Other Aquatic Organisms	*4.6 mg/l Green Algae - 72hr*
Persistence and Degradibility	*Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.*
Biochemical Oxygen Demand	*1.44 g O_2/g substance*
Chemical Oxygen Demand	*2.1 g O_2/g substance*
Theoretical Oxygen Demand	*3.17 g O_2/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*

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*

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

Ethyl Acetate (141-78-6)	
LC50 Fish	*450 - 600 mg/l Rainbow Trout - 96hr*
LC50 Fish	*220 - 250 mg/l Fathead Minnow - 96h*
LC50 Other Aquatic Organisms	*560 mg/l Water Flea - 48hr*
EC50 Daphnia	*2300 - 3090 mg/l Water Flea - 24hr*
EC50 Other Aquatic Organisms	*4300 mg/l Green Algae - 24hr*
Persistence and Degradibility	*Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.*
Biochemical Oxygen Demand	*0.293 g O_2/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 Koc	*0.778*

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	*70 % 28 Days*
BCF Fish	*< 1 (BCF)*
Log Pow	*0.18*
Bioacculative Potential	*Low potential for bioaccumulation (BCF < 500).*

Methyl Acetate (79-20-9)	
Log Koc	*0.68*

Isopropyl Alcohol (67-63-0)	
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	*Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.*
Biochemical Oxygen Demand	*1.19 g O_2/g substance*
Chemical Oxygen Demand	*2.23 g O_2/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; Other; 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).*

Stoddard Solvent (8052-41-3)	
LC50 Fish	*Rainbow Trout - 96hr*
Log Pow	*3.16-7.06*
Log Koc	*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 g O_2/g substance*
BCF Fish	*501.187 (BCF; Other; Pimephales promelas)*
Log Pow	*3.9*
Bioacculative Potential	*Potential for bioaccumulation (500 ≤ BCF ≤ 5000).*
Log Koc	*2.17*

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 ≥ 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 Other Aquatic Organisms	*11 mg/l Green Algae - 72hr*
Log Kow	*3.6 - 5.7*

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Disposal : *Characteristics and waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations.*

Waste Disposal Of Packaging : *Consult with your local landfill to determine if empty small containers can be disposed of along with regular trash pickup. For disposal of large containers (typically 10 gallons or larger), or for containers not suitable for landfill, a licensed reconditioner should be used.*

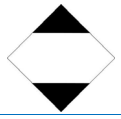
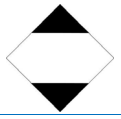
Landfill Precautions : *Not Available.*

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

SECTION 14 - TRANSPORTATION INFORMATION

14.1 UN Number		NOM-002-SLT (MEXICO)	IATA (AIR)	IMDG (OCEAN)
UN Number	:	*UN1950*	*UN1950*	*UN1950*

14.2 UN Proper Shipping Name		NOM-002-SLT (MEXICO)	IATA (AIR)	IMDG (OCEAN)
UN Proper Shipping Name	:	*Aerosols, Limited Quantity*	*Aerosols, Flammable, Limited Quantity*	*Aerosols, Limited Quantity*

14.3 Transport Hazard Class(es)		NOM-002-SLT (MEXICO)	IATA (AIR)	IMDG (OCEAN)
Transport Hazard Class(es)	:	*2.1*	*2.1*	*2.1*
Labels	:	*None*	*2.1 - Flammable gas* 	*None*
Limited Quantity	:	*Yes* 	*Yes* 	*Yes* 
EmS Code	:	*Not Applicable*	*Not Applicable*	*F-D, S-U*

14.4 Packing Group		NOM-002-SLT (MEXICO)	IATA (AIR)	IMDG (OCEAN)
Packing Group	:	*None*	*None*	*None*

14.5 Environmental Hazards			IATA (AIR)	IMDG (OCEAN)
Marine Pollutant	:	*No*	*No*	*No*

14.6 Special Precautions

Precautions : *None Identified*

14.7 Transport in Bulk According to Annex II of Marpol and the IBC Code

Remarks : *Not applicable for product as supplied*

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific to the Product

TSCA Inventory (United States) : *All chemical substances in this product are either listed on the Toxic Substances Control Act (TSCA) Inventory or are in compliance with a TSCA Inventory exemption.*

INSQ Inventory (Mexico) : *To the best of our knowledge, all chemical substances in this product are listed on the National Inventory of Chemical Substances of Mexico.*

SECTION 16 - OTHER INFORMATION

Indication of changes :

Section	*Changed item*	*Change*
1	Revision date	Modified
1	Supersedes	Modified
2.2	Precautionary statements (GHS US)	Modified
3	Composition/information on ingredients	Modified
9	Auto-ignition temperature	Modified
9	Explosive limits (vol %)	Modified
9	Relative vapour density at 20 °C	Added

Full Text of H-Statements :

H Code	*H Phrase*
H222	*Extremely flammable aerosol.*
H225	*Highly flammable liquid and vapour.*
H226	*Flammable liquid and vapour.*
H304	*May be fatal if swallowed and enters airways.*
H315	*Causes skin irritation.*
H319	*Causes serious eye irritation.*
H335	*May cause respiratory irritation.*
H336	*May cause drowsiness or dizziness.*
H361	*Suspected of damaging fertility or the unborn child.*
H373	*May cause damage to organs through prolonged or repeated exposure.*
H400	*Very toxic to aquatic life.*
H401	*Toxic to aquatic life*
H410	*Very toxic to aquatic life with long lasting effects.*
H411	*Toxic to aquatic life with long lasting effects.*
H412	*Harmful to aquatic life with long lasting effects.*

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.