

Part No. 6205A (Aerosol)

Print Date: 10/10/2019 Revision Date: 10/10/2019 Supersedes Date: 10/10/2019 Issue Date: 10/10/2019 Version: 1.0 (EN)-MX

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Per-Fix™ Black for Vinyl

according to the NMX-R-019-SCFI-2011, according to the NOM-018-STPS-2015

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

1.1 Product Identifier

Product Name : Per-Fix™ Black for Vinyl

Manufacturer Product Number : 6205A

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 Classific	cation of th	e Substance or Mixture	
Flam. Aerosol 1	H222	Physical Hazards	Flammable aerosols, Category 1
Skin Irrit. 2	H315	Health Hazards	Skin corrosion/irritation, Category 2
Eye Irrit. 2a	H319	Health Hazards	Serious eye damage/eye irritation, Category 2A
Carc. 2	H351	Health Hazards	Carcinogenicity, Category 2
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
Aquatic Acute 3	H402	Environmental Hazards	Hazardous to the aquatic environment — Acute Hazard, Category 3

2.2 Label Elements

Hazard Pictograms

Signal Word



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0.8	_ ugc.		
Hazard Statements	H222	:	Extremely flammable aerosol.
	H315	:	Causes skin irritation.
	H319	:	Causes serious eye irritation.
	H336	:	May cause drowsiness or dizziness.
	H351	:	Suspected of causing cancer.
	H361	:	Suspected of damaging fertility or the unborn child.
	H373	:	May cause damage to organs through prolonged or repeated exposure.



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H402 : Harmful to aquatic life

Precautionary Statements P202 : Do not handle until all safety precautions have been read and understood.

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

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. 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.
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.

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
Methyl Ethyl Ketone	78-93-3	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Toluene	108-88-3	10 - 30	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
Propane	74-98-6	10 - 30	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Ethyl Acetate	141-78-6	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Acetone	67-64-1	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
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



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Substance name	CAS Number	% wt*	Classification
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
Carbon Black	1333-86-4	1 - 5	Carc. 2, H351
Ethylbenzene	100-41-4	0.205	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

SECTION 4 - FIRST-AID MEASURES

4.1 Description of First-Aid Measures

General Measures : If exposed or concerned: Get medical advice/attention.

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

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, Dermatitis, Central Nervous System Depression, Confusion,

Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Optical Nerve Damage, Cough, Blurred Vision, Chest Tightness, Mucous Membrane, Diarrhea.

Delayed Effects : No known delayed effects.

 Immediate Effects
 : No known immediate effects.

Chronic Effects : Because of defatting properties, repeated skin contact can cause skin damage such as chap, dermatitis,

inflammation and the formation of eczema. Repeated or prolonged contact may cause skin sensitization.

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

4.3 Indication of Immediate Medical Attention and Special Treatment

Notes to Physician : Treat symptomatically.

Specific Treatments/Antidotes : No Information Available.

Medical Conditions Aggravated : May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing 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.

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



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5.3 Special Protective Actions for Fire-Fighters

Firefighting Instructions

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

Protection during Firefighting

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

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel

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

For Emergency Personnel

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

6.2 Environmental Precautions

Environmental Precautions

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

6.3 Methods and Materials for Containment and Cleaning up

Containment Procedures

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

Cleanup Procedures

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

Other Information

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

Prohibited Materials

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

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

General Handling Precautions

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

Hygiene Recommendations

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

7.2 Conditions for Safe Storage Including Any Incompatibilities

Storage Requirements

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

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

N-Butane (106-97-8)		
NOM-010-STPS-1999	LMPE-PPT (mg/m3)	1900 mg/m³
NOM-010-STPS-1999	LMPE-PPT (ppm)	800 ppm
NOM-010-STPS-2014	VLE-CT (ppm)	1000 ppm
USA (ACGIH)	ACGIH TWA (mg/m³)	1000 ppm
USA (ACGIH)	ACGIH Ceiling (mg/m³)	1000 ppm



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Propane (74-98-6)		
NOM-010-STPS-2014	VLE-CT (ppm)	1000 ppm
Isobutane (75-28-5)		
NOM-010-STPS-2014	VLE-CT (ppm)	1000 ppm
USA (ACGIH)	ACGIH TWA (mg/m³)	1000 ppm
USA (ACGIH)	Acdin I WA (IIIg/III)	1000 ррт
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 Ethyl Ketone (78-93-3)		
NOM-010-STPS-1999	LMPE-PPT (mg/m3)	590 mg/m³
NOM-010-STPS-1999	LMPE-PPT (ppm)	200 ppm
NOM-010-STPS-1999	LMPE-CT (mg/m3)	885 mg/m³
NOM-010-STPS-1999	LMPE-CT (ppm)	300 ppm
NOM-010-STPS-2014	VLE-PPT (ppm)	300 ppm
NOM-010-STPS-2014	VLE-CT (ppm)	200 ppm
USA (ACGIH)	ACGIH TWA (mg/m³)	200 ppm
USA (ACGIH)	ACGIT TWA (Ing/III) ACGIH Ceiling (mg/m³)	300 ppm
Biological Exposure Index	MEK in Urine, End of shift	2 mg/l
	,	, - .
Toluene (108-88-3)	IMPE POT (ma/m2)	100 / 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
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 (WA (Ing/III) ACGIH Ceiling (ma/m³)	150 ppm
Biological Exposure Index	Methylhippuric Acid in Urine (Post Shift), End of shift	1.5 g/g creatinine
	1 20 17 17	, 5,5
Ethylbenzene (100-41-4) NOM-010-STPS-1999	LMPE-PPT (mg/m3)	435 mg/m³
NOM-010-STPS-1999	LMPE-PPT (mg/m3) LMPE-PPT (ppm)	100 ppm
	LMPE-CP (ppm) LMPE-CT (mg/m3)	435 mg/m ³
NOM-010-STPS-1999	1 5 /	
NOM-010-STPS-1999	LMPE-CT (ppm)	125 ppm
USA (ACGIH) Biological Exposure Index	ACGIH TWA (mg/m³) Sum of Mandelic Acid and Phenyl Glyoxylic Acid in Urine, End of shift at end of workweek	20 ppm 0.7 g/g creatinine
3 '	Sum of Munucine Acid and Friends Gryoxylle Acid in Orine, End of Shift at end of workweek	o., y, y creatiffile
Carbon Black (1333-86-4)		
NOM-010-STPS-1999	LMPE-PPT (mg/m3)	3.5 mg/m³
NOM-010-STPS-1999	LMPE-CT (mg/m3)	7 mg/m³
NOM-010-STPS-2014	VLE-CT (mg/m3)	3 mg/m³
USA (ACGIH)	ACGIH TWA (ppm)	3 mg/m³
Acetone (67-64-1)		
NOM-010-STPS-1999	LMPE-PPT (mg/m3)	2400 mg/m³
NOM-010-STPS-1999	LMPE-PPT (ppm)	1000 ppm
NOM-010-STPS-1999	LMPE-CT (mg/m3)	3000 mg/m³



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Acetone (67-64-1)		
NOM-010-STPS-1999	LMPE-CT (ppm)	1260 ppm
NOM-010-STPS-2014	VLE-PPT (ppm)	750 ppm
NOM-010-STPS-2014	VLE-CT (ppm)	500 ppm
USA (ACGIH)	ACGIH TWA (mg/m³)	250 ppm
USA (ACGIH)	ACGIH Ceiling (mg/m³)	500 ppm
Biological Exposure Index	Acetone in urine, End of shift (Ns)	25 mg/l

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

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: Chemical-resistant gloves, tested according to ASTM F903 - 17.

Remarks

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

Skin and Body Protection

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

Respiratory Protection

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

Compliance

: If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.

Other Protective Equipment

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

used.

Environmental Exposure Controls : Avoid release to the environment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties				
Boiling Point	> 56.00 °C	Melting / Freezing Point	>-108.00 °C	
Flash Point, Liquid	> -20.00 °C	Flash Point, Propellant	-104.44 °C	
Explosive Limits	LEL: 0.70 UEL: 24.60 vol %	Autoignition Temperature, Liquid	> 190.00 °C	
Flammability	Extremely Flammable Aerosol	Density	0.755 g/cm³	
Molecular Weight	Not Available	Weight	6.300 lbs/gal	
Vapor Pressure	Not Available	рН	Not Available	
Vapor Density	Not Available	Evaporation Rate (nBAc=1)	Not Available	
Viscosity	Not Available	Partition Coefficient (Log Pow)	Not Available	
Odor Threshold	Not Available	Refractive Index	Not Available	
Physical State	Pressurized Product	Heat Of Combustion	14054.79 BTU/lb	
Appearance / Color	Black	Water Solubility	Not Available	
Odor	Paint-like	Decomposition Temperature	Not Available	

9.2 **Environmental Properties** Percent Volatile 681.93 g/L (5.69 lbs/gal) 89.39 % wt **VOC Regulatory** Percent VOC 586.45 g/L (4.89 lbs/gal) 77.68 % wt VOC Actual Percent HAP 39.06 % wt **HAP Content** 294.90 g/L (2.46 lbs/gal) **Global Warming Potential** 1.4950 g O3/g 1.23 GWP Maximum Incremental Reactivity 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.



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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, Calcium Hypochlorite, Aluminum Chloride, Acids, Hydrogen Peroxide, Magnesium, Sulfuric Acid, Perchloric Acid, Chromium Trioxide, Nitrating Agents, Chlorosulfuric Acid, Potassium Chlorate, Heavy Metals and their Salts, Phenols, Performic Acid.

10.6 Hazardous Decomposition Products

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

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects			
N-Butane (CAS: 106-97-8 / EC: 203-448-7)			
LC50 Inhalation (Rat)	658 mg/l/4h (ChemInfo)		
LC50 Inhalation (Rat)	276000 ppm/4h (ChemInfo)		
Propane (CAS: 74-98-6 / EC: 200-827-9)			
LC50 Inhalation (Rat)	658 mg/l/4h (Lit.)		
Isobutane (CAS: 75-28-5 / EC: 200-857-2)			
LC50 Inhalation (Rat)	368000 ppm/4h (ChemInfo)		
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 Ethyl Ketone (CAS: 78-93-3 / EC: 201-159-0)			
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 (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)		
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)		



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Carbon Black (CAS: 1333-86-4 / EC: 215-609-9)	
LD50 Oral (Rat)	> 15400 mg/kg (RTECS)
LD50 Dermal (Rabbit)	> 3000 mg/kg (RTECS)
LC50 Inhalation (Rat)	27 mg/l/4h (ChemInfo)

 Acetone (CAS: 67-64-1 / EC: 200-662-2)

 LD50 Oral (Rat)
 5800 mg/kg (Sigma-Aldrich)

 LD50 Dermal (Rabbit)
 20000 mg/kg (IUCLID)

 LC50 Inhalation (Rat)
 76 mg/l/4h (GESTIS Substance Database)

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

Delayed and Immediate Effects and Also Chronic : See Section 4.2

Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure

Skin Corrosion/Irritation

Eye Damage/Irritation

: Causes skin 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 Vaporizer : Aerosol

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

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

Carbon Black (CAS: 1333-86-4 / EC: 215-609-9)

ACGIH Category A3 - Confirmed animal carcinogen with unknown relevance to humans

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity and Ecological Properties

n-Butane (106-97-8)	
Persistence and Degradibility	Readily biodegradable in water.
Bioconcentration Factor	33.52
Log Pow	2.89
Bioacculative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	1.641

	ropane (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).	

Isobutane (75-28-5)		
Persistence and Degradibility	Readily biodegradable in water. Biodegradable in the soil. Not applicable (gas).	
BCF Fish	26.62	
Log Pow	2.76	
Bioacculative Potential	Low potential for bioaccumulation (BCF < 500).	
Log Koc	1.545	

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



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Ethyl Acetate (141-78-6)	
Persistence and Degradibility	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical Oxygen Demand	0.293 g O₂/g substance
Chemical Oxygen Demand	1.69 g 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 Ethyl Ketone (78-93-3)	
LC50 Fish	3130 - 3320 mg/l Fathead Minnow - 96h
EC50 Daphnia	7060 mg/l Water Flea - 24hr
Persistence and Degradibility	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic
crosscence and Degradamity	conditions
Biochemical Oxygen Demand	2.03 g O ₂ /g substance
Chemical Oxygen Demand	2.31 g O ₂ /g substance
Theoretical Oxygen Demand	2.44 g O ₂ /g substance
Log Pow	0.3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Bioacculative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	Koc,34; Calculated value
-	Nogot Culculated Funds
Toluene (108-88-3)	
LC50 Fish	5.8 mg/l Rainbow Trout - 96hr
LC50 Other Aquatic Organisms	10 mg/l Green Algae - 72hr
EC50 Daphnia	6 mg/l Water Flea - 48hr
Persistence and Degradibility	Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.
Biochemical Oxygen Demand	2.15 g O ₂ /g substance
Chemical Oxygen Demand	2.52 g O ₂ /g substance
Theoretical Oxygen Demand	3.13 g O ₂ /g substance
Biodegration	86 % 28 Days
Log Pow	2.73 (Experimental Value)
Bioacculative Potential	Low potential for bioaccumulation (BCF < 500).
Log Koc	2.15
Xylene (1330-20-7)	
LC50 Fish	26.7 mg/l Fathead Minnow - 96h
EC50 Daphnia	75.49 mg/l Water Flea - 48hr
EC50 Other Aquatic Organisms	72 mg/l Green Algae - 14d
Persistence and Degradibility	Readily biodegradable in water.
Biochemical Oxygen Demand	1.40 - 2.53 g O ₂ /g substance
Chemical Oxygen Demand	2.56 - 2.91 g O ₂ /g substance
Theoretical Oxygen Demand	$3.1 \text{ q } O_2/\text{q substance}$
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 Paphnia	2.4 mg/l Water Flea - 48hr
EC50 Dapnnia EC50 Other Aquatic Organisms	9.68 mg/l Bacteria - 48nr
EC50 Other Aquatic Organisms EC50 Other Aquatic Organisms	9.68 mg/l Green Algae - 72hr
	4.6 mg/I Green Algae - 72nr Readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.
Persistence and Degradibility	, , , , , , , , , , , , , , , , , , , ,
Biochemical Oxygen Demand	1.44 g O ₂ /g substance
Chemical Oxygen Demand	$2.1 \text{ g } O_2/\text{g substance}$
Theoretical Oxygen Demand	3.17 g O ₂ /g substance
Biodegration	81 % 28 Days
BCF Fish	1.18 3.15
Log Pow	



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Ethylbenzene (100-41-4)	hylbenzene (100-41-4)	
Log Koc	2.4	
Carbon Black (1333-86-4)		
LC50 Fish	> 1000 mg/l Zebra Fish - 96hr	
EC50 Daphnia	> 5600 mg/l Water Flea - 24hr	
EC50 Other Aquatic Organisms	> 10000 mg/l Green Algae - 72hr	
Chemical Oxygen Demand	Not applicable	
Theoretical Oxygen Demand	Not applicable	
Log Pow	1.09	
Bioacculative Potential	Not bioaccumulative.	
Acetone (67-64-1)		
LC50 Fish	5540 mg/l Rainbow Trout - 96hr	
LC50 Fish	8300 mg/l Bluegill Sunfish - 96h	
EC50 Daphnia	8800 mg/l Water Flea - 48hr	
Persistence and Degradibility	Biodegradability 90% / 28 days.	
Biochemical Oxygen Demand	1.43 g O ₂ /g substance	
Chemical Oxygen Demand	1.92 g O ₂ /g substance	
Theoretical Oxygen Demand	$2.2 \text{ g } O_2/\text{g substance}$	
BCF Fish	0.69	
BCF Other Aquatic Organisms	3	
Log Pow	-0.24	

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

: 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 Num	ber	:	UN1950	UN1950	UN1950
14.2	UN Proper Shipping Name		NOM-002-SLT (MEXICO)	IATA (AIR)	IMDG (OCEAN)
UN Prop	er 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)
Transpo	rt Hazard Class(es)	:	2.1	2.1	2.1
Labels		:	None	2.1 - Flammable gas	None
Limited	Quantity	:	Yes	Yes	Yes



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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 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
 Created Safety Data Sheet - Revision 1
 Added

Full Text of H-Statements

H Code	H Phrase
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life
H402	Harmful to aquatic life

Disclaimer of Liability

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