

**905 Hoppe's No. 9 Bore Cleaner -
2oz.**

SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product Name : 905 Hoppe's No. 9 Bore Cleaner - 2oz.
 Manufacturer Product Number : P0306CT

1.2 Other Means Of Identification

Other Identifiers : Not Available

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

Recommended Use : Sporting solvent
 Restrictions On Use : None Identified

1.4 Supplier Details

	Manufacturer Details	Supplier Details
Company Name	Chem-Pak Inc	Bushnell Outdoor Products
Address	242 Corning Way, Martinsburg, WV 25405 - United States	9200 Cody, Overland Park, KS 62214-3259 - United States
Phone Number	304-262-1880	913-752-3563
Fax Number	302-262-9643	913-752-3533
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
 Skin Corrosion/Irritation, Category 2 : Causes skin irritation
 Serious Eye Damage/Eye Irritation, Category 2a : Causes serious eye irritation
 Sensitisation — Skin, Category 1 : May cause an allergic skin reaction
 Specific Target Organ Toxicity — Single Exposure, Category 3, Narcosis : May cause drowsiness or dizziness
 Hazardous To The Aquatic Environment — Acute Hazard, Category 3 : Harmful to aquatic life
 Hazardous To The Aquatic Environment — Chronic Hazard, Category 3 : Harmful to aquatic life with long lasting effects

2.2 Label Elements

Hazard Pictograms :



Signal Word :

Danger

Hazard Statements :

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.



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Precautionary Statements

: *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. Avoid breathing spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection. If on skin: Wash with plenty of water. 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. Call physician if you feel unwell. Specific treatment (see supplemental first aid instruction on this label). If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. 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

12% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

12% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

13.63% 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*
Acetone	67-64-1	30 - 60	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Ethanol	64-17-5	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Kerosene	8008-20-6	10 - 30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Oleic Acid	112-80-1	10 - 30	Skin Irrit. 2, H315
Propane	74-98-6	5 - 10	Flam. Gas 1, H220 Dissolved gas, H280
N-Butane	106-97-8	1 - 5	Flam. Gas 1, H220 Dissolved gas, H280
N-Amyl Acetate	628-63-7	1 - 5	Flam. Liq. 3, H226 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Isobutane	75-28-5	1 - 5	Flam. Gas 1, H220 Dissolved gas, H280
Citronellal	106-23-0	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 2, H411



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**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 eyes with water as a precaution.
Skin Contact	: Wash skin with plenty of water.
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	: Liquid contact may cause pain along with moderate 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.
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, throat, and gastrointestinal tract resulting in vomiting and/or cramps. Aspiration 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	: CONTENTS FLAMMABLE AND UNDER PRESSURE. 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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES



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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)		
ACGIH	ACGIH TWA (ppm)	1000 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	1900
NIOSH	NIOSH REL (TWA) (ppm)	800 ppm
California	California PEL (TWA) (mg/m ³)	1900 mg/m ³
California	California PEL (TWA) (ppm)	800 ppm
Propane (74-98-6)		
OSHA	OSHA PEL (TWA) (mg/m ³)	1800 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
NIOSH	US IDLH (ppm)	2100 ppm



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Propane (74-98-6)		
NIOSH	NIOSH REL (TWA) (mg/m ³)	1800 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
California	California PEL (TWA) (mg/m ³)	1800 mg/m ³
California	California PEL (TWA) (ppm)	1000 ppm
Isobutane (75-28-5)		
ACGIH	ACGIH TWA (ppm)	1000 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	800 ppm
Kerosene (8008-20-6)		
ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	100 mg/m ³
Ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
NIOSH	US IDLH (ppm)	3300 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	1900
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
California	California PEL (TWA) (mg/m ³)	1900 mg/m ³
California	California PEL (TWA) (ppm)	1000 ppm
Oleic Acid (112-80-1)		
Not applicable		
n-Amyl Acetate (628-63-7)		
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (ppm)	100 ppm (Pentyl acetate, all isomers; USA; Short time value; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m ³)	525 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
NIOSH	US IDLH (ppm)	1000 ppm
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
Citronellal (106-23-0)		
Not applicable		
Acetone (67-64-1)		
ACGIH	ACGIH TWA (ppm)	250 ppm
ACGIH	ACGIH STEL (ppm)	500 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	2400 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
NIOSH	US IDLH (ppm)	2500 ppm
NIOSH	NIOSH REL (TWA) (ppm)	250 ppm
California	California PEL (TWA) (mg/m ³)	1200 mg/m ³
California	California PEL (TWA) (ppm)	500 ppm
California	California PEL (STEL) (mg/m ³)	1780 mg/m ³
California	California PEL (STEL) (ppm)	750 ppm
California	California PEL (Ceiling) (ppm)	3000 ppm
BEI	Acetone in urine, End of shift (Ns)	25 mg/l



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8.2 Exposure Controls

Engineering Measures	: Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.
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.
Skin 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.
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.
Other Protective Equipment	: Safety showers and eye-wash stations should be available in the workplace near where the material will be used.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties

Boiling Point	> 47.00 °C	Melting / Freezing Point	> -114.20 °C
Flash Point, Liquid	> -17.00 °C	Flash Point, Propellant	-104.40 °C
Explosive Limits	LEL: 0.70 UEL: 19.00 vol %	Autoignition Temperature, Liquid	210.00 °C
Flammability	Extremely Flammable Aerosol	Density	0.766 g/cm ³
Molecular Weight	Not Available	Weight	6.392 lbs/gal
Vapor Pressure	Not Available	pH	Not Available
Vapor Density	Not Available	Evaporation Rate (nBac=1)	Not Available
Viscosity	Not Available	Partition Coefficient	Not Available
Odor Threshold	Not Available	Refractive Index	Not Available
Physical Form	Pressurized Product	Heat Of Combustion	Not Available
Odor	Strong	Water Solubility	Not Available
Appearance / Color	Clear, Colorless	Decomposition Temperature	Not Available

9.2 Environmental Properties

Percent Volatile	87.26 % wt	VOC Regulatory	606.00 g/L (5.06 lbs/gal)
Percent VOC	50.85 % wt	VOC Actual	389.48 g/L (3.25 lbs/gal)
Percent HAP	0.00 % wt	HAP Content	0.00 g/L (0.00 lbs/gal)
Global Warming Potential	1.14 GWP	Maximum Incremental Reactivity	0.9310 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

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, Heat, Flames, Sparks.



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10.5 Incompatible Materials

Incompatibilities : Strong Oxidizing Agents, Strong Reducing Agents, Strong Acids, Potassium t-Butoxide, Halogen Compounds, Strong Bases, Strong Mineral Acids, Heavy Metals and their Salts.

10.6 Hazardous Decomposition Products

Products : 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.)
Isobutane (75-28-5)	
LC50 Inhalation (Rat)	> 13023 ppm/4h (ChemInfo)
Kerosene (8008-20-6)	
LD50 Oral (Rat)	15000 mg/kg (RTECS)
LD50 Dermal (Rabbit)	2832 mg/kg (Sigma-Aldrich)
LC50 Inhalation (Rat)	720 ppm/4h (ChemInfo)
Ethanol (64-17-5)	
LD50 Oral (Rat)	10740 mg/kg (Merck SDS)
LD50 Dermal (Rabbit)	> 15800 mg/kg (ChemInfo)
LC50 Inhalation (Rat)	124.7 mg/l/4h (Merck SDS)
LC50 Inhalation (Rat)	32380 ppm/4h (ChemInfo)
Oleic Acid (112-80-1)	
LD50 Oral (Rat)	74000 mg/kg (Sigma-Aldrich)
n-Amyl Acetate (628-63-7)	
LD50 Oral (Rat)	> 1600 mg/kg (RTECS)
LD50 Dermal (Rabbit)	> 5000 mg/kg (Rabbit)
LC50 Inhalation (Rat)	> 3675 ppm/4h (ChemInfo)
Citronellal (106-23-0)	
LD50 Oral (Rat)	2420 mg/kg (RTECS)
LD50 Dermal (Rabbit)	> 2500 mg/kg (RTECS)
Acetone (67-64-1)	
LD50 Oral (Rat)	5800 mg/kg (ECHA)
LD50 Dermal (Rabbit)	20000 mg/kg (IUCLID)
LC50 Inhalation (Rat)	76 mg/l/4h (Lit.)

11.1.2 Health Hazard Classification

Skin Corrosion/Irritation : Causes skin irritation.
Eye Damage/Irritation : Causes serious eye irritation.
Respiratory Or Skin Sensitization : May cause an allergic skin reaction.
Germ Cell Mutagenicity : Not classified
Reproductive Toxicity : Not classified
Stot-Single Exposure : May cause drowsiness or dizziness.
Stot-Repeated Exposure : Not classified
Aspiration Hazard : Not classified



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Carcinogen Data

: None of the ingredients in the product are listed with OSHA, IARC, NTP or ACGIH as being a suspected or known carcinogen in a concentration greater than 0.1% by weight.

11.1.3 Information On The Likely Routes Of Exposure

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

11.1.4 Symptoms Related To The Physical, Chemical And Toxicological Characteristics

Symptoms of Exposure : Eye Irritation, Nose Irritation, Throat Irritation, Lassitude (Weakness), Dermatitis, Central Nervous System Depression, Confusion, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Drowsiness, Diarrhea.

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 : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Ethanol (64-17-5)

LC50 fish 1	14200 mg/l Fathead Minnow - 96h
EC50 Daphnia 1	9268 - 14221 mg/l Water Flea - 48hr

Oleic Acid (112-80-1)

LC50 fish 1	205 mg/l Fathead Minnow - 96h
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n-Amyl Acetate (628-63-7)

LC50 fish 1	65 mg/l Mosquito Fish - 96hr
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Citronellal (106-23-0)

LC50 fish 1	22 mg/l 96hr
EC50 Daphnia 1	8.7 mg/l Water Flea - 48hr
EC50 other aquatic organisms 1	13.33 mg/l Green Algae - 72hr

Acetone (67-64-1)

LC50 fish 1	5540 mg/l 96h, Rainbow Trout (Lit.)
EC50 Daphnia 1	12600 mg/l 48h, Water Flea (Lit.)

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).

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)



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Isobutane (75-28-5)	
BCF other aquatic organisms 1	20 - 52 (BCF)
Log Pow	2.8 (Experimental value; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Kerosene (8008-20-6)	
Biochemical oxygen demand (BOD)	0.53 g/g
ThOD	3.46 mg/g
Log Pow	3.3
Ethanol (64-17-5)	
Persistence and degradability	Biodegradability 94% / 28 days.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O ₂ /g substance
Chemical oxygen demand (COD)	1.70 g O ₂ /g substance
ThOD	2.10 g O ₂ /g substance
Log Pow	-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Oleic Acid (112-80-1)	
Chemical oxygen demand (COD)	2.25 g O ₂ /g substance
ThOD	2.89 g O ₂ /g substance
BOD (% of ThOD)	> 0.5 (5 days; Literature study)
Log Pow	7.73
n-Amyl Acetate (628-63-7)	
Biochemical oxygen demand (BOD)	0.31 g O ₂ /g substance
ThOD	2.34 g O ₂ /g substance
BOD (% of ThOD)	0.72 (20 days; Literature study)
BCF fish 1	31.0 (BCF)
Log Pow	2.3
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Citronellal (106-23-0)	
Chemical oxygen demand (COD)	2.67 g O ₂ /g substance
ThOD	2.9 g O ₂ /g substance
BCF other aquatic organisms 1	280 (BCF)
Log Pow	3.53 - 3.62
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Acetone (67-64-1)	
Persistence and degradability	Biodegradability 90% / 28 days.
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance
ThOD	2.20 g O ₂ /g substance
BOD (% of ThOD)	0.872 (20 days; Literature study)
BCF fish 1	0.69 (BCF)
BCF other aquatic organisms 1	3 (BCF; BCFWIN)
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative.

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 **.**



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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

15.1 Federal Regulations

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

SARA 313 Reporting : 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.

Ammonium Hydroxide	CAS No 1336-21-6	< 1%
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Applicable Federal Regulations : One or more ingredients are regulated by other Federal Regulations.

n-Amyl Acetate (628-63-7)	
CERCLA RQ	5000 lb

Acetone (67-64-1)	
CERCLA RQ	5000 lb

15.2 State Regulations

California Proposition 65 : This product does not contain any substance known to the State of California to cause cancer, developmental and/or reproductive harm.

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	

Kerosene (8008-20-6)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Massachusetts - Right To Know List	
U.S. - Pennsylvania - RTK (Right to Know) List	

Ethanol (64-17-5)	
U.S. - New Jersey - Right to Know Hazardous Substance List	



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Oleic Acid (112-80-1)

U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List

n-Amyl Acetate (628-63-7)

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

Citronellal (106-23-0)

U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List

Methyl Salicylate (119-36-8)

U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List

Acetone (67-64-1)

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

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
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects