

## GC4A Hoppe's Elite Gun Cleaner

### SECTION 1 - IDENTIFICATION

#### 1.1 Product Identifier

Product Name : GC4A Hoppe's Elite Gun Cleaner  
Manufacturer Product Number : P6947CT

#### 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 : Gun cleaning product  
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

Gases Under Pressure : Compressed Gas : Contains gas under pressure; may explode if heated  
Serious Eye Damage/Eye Irritation, Category 2a : Causes serious eye irritation

#### 2.2 Label Elements

Hazard Pictograms :



Signal Word : Warning

Hazard Statements : Contains gas under pressure; may explode if heated. Causes serious eye irritation.

Precautionary Statements : Wash hands thoroughly after handling. Wear protective gloves and eye protection. If in eyes: 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. Protect from sunlight. Store in a well-ventilated place.

#### 2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : None Identified.

#### 2.4 Unknown Acute Toxicity

1.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
1.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
15.22% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))



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### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substance

Not Applicable

#### 3.2 Mixture

Ingredient	Cas Number	%	Classification*
Diethylene Glycol Monobutyl Ether	112-34-5	< 30	Eye Irrit. 2A, H319
Nitrogen	7727-37-9	1 - 5	Compressed gas, H280

\*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, thorax, 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 under pressure. In a fire or if heated, a pressure increase will occur which may result in container bursting.



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### 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

### 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 1 Aerosol per NFPA 30B.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

Nitrogen (7727-37-9)

Not applicable



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### Diethylene Glycol Monobutyl Ether (112-34-5)

ACGIH	ACGIH TWA (ppm)	10 ppm
Not applicable		

## 8.2 Exposure Controls

<b>Engineering Measures</b>	: 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.
<b>Respiratory Protection</b>	: Respiratory protection is not anticipated to be needed.
<b>Skin Protection</b>	: 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.
<b>Eye/Face Protection</b>	: Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling.
<b>Other Protective Equipment</b>	: Not Applicable.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Physical Properties

<b>Boiling Point</b>	> 103.90 °F (Fahrenheit)	<b>Melting / Freezing Point</b>	> -69.20 °C
<b>Flash Point, Liquid</b>	Non flammable	<b>Flash Point, Propellant</b>	Non flammable
<b>Explosive Limits</b>	Non flammable	<b>Autoignition Temperature, Liquid</b>	Not Available
<b>Flammability</b>	Non-Flammable Aerosol	<b>Density</b>	1.012 g/cm <sup>3</sup>
<b>Molecular Weight</b>	Not Available	<b>Weight</b>	8.445 lbs/gal
<b>Vapor Pressure</b>	Not Available	<b>pH</b>	Not Available
<b>Vapor Density</b>	Not Available	<b>Evaporation Rate (nBac=1)</b>	Not Available
<b>Viscosity</b>	Not Available	<b>Partition Coefficient</b>	Not Available
<b>Odor Threshold</b>	Not Available	<b>Refractive Index</b>	Not Available
<b>Physical Form</b>	Pressurized Product	<b>Heat Of Combustion</b>	Not Available
<b>Odor</b>	Slight	<b>Water Solubility</b>	Not Available
<b>Appearance / Color</b>	Clear, Colorless	<b>Decomposition Temperature</b>	Not Available

### 9.2 Environmental Properties

<b>Percent Volatile</b>	14.12 % wt	<b>VOC Regulatory</b>	148.92 g/L (1.24 lbs/gal)
<b>Percent VOC</b>	0.00 % wt	<b>VOC Actual</b>	0.00 g/L (0.00 lbs/gal)
<b>Percent HAP</b>	0.00 % wt	<b>HAP Content</b>	0.00 g/L (0.00 lbs/gal)
<b>Global Warming Potential</b>	0.00 GWP	<b>Maximum Incremental Reactivity</b>	0.4220 g O3/g
<b>Ozone Depletion Potential</b>	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.



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### 10.4 Conditions To Avoid

Conditions : None identified.

### 10.5 Incompatible Materials

Incompatibilities : Strong Oxidizing Agents, Strong Acids, Halogen Compounds, Bases, Calcium Hypochlorite, Perchloric Acid, Strong Mineral Acids, Heavy Metals and their Salts.

### 10.6 Hazardous Decomposition Products

Products : Aldehydes.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1.1 Information On Toxicological Effects

#### Diethylene Glycol Monobutyl Ether (112-34-5)

LD50 Oral (Rat)	5660 mg/kg (RTECS)
LD50 Dermal (Rabbit)	2700 mg/kg (RTECS)

### 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	: Not classified
Stot-Single Exposure	: Not classified
Stot-Repeated Exposure	: Not classified
Aspiration Hazard	: Not classified
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 : None identified.

### 11.1.4 Symptoms Related To The Physical, Chemical And Toxicological Characteristics

Symptoms of Exposure : None identified.

### 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	: None identified.
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.

#### Diethylene Glycol Monobutyl Ether (112-34-5)

LC50 fish 1	1300 mg/l Bluegill Sunfish - 96h
EC50 Daphnia 1	> 100 mg/l Water Flea - 48hr
EC50 other aquatic organisms 1	> 100 mg/l Green Algae - 96hr

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### 12.2 Ecological Properties

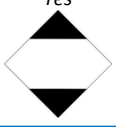

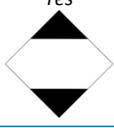

Nitrogen (7727-37-9)	
Persistence and degradability	Not applicable (gas).
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Log Pow	0.67 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Diethylene Glycol Monobutyl Ether (112-34-5)	
Persistence and degradability	Biodegradability 90% / 28 days.
Biochemical oxygen demand (BOD)	0.25 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.08 g O <sub>2</sub> /g substance
ThOD	2.173 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.11
BCF fish 1	0.46 (BCF)
Log Pow	0.56 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

## SECTION 13 - DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

<b>Waste Disposal</b>	: 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.
<b>Waste Disposal Of Packaging</b>	: 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.
<b>Landfill Precautions</b>	: Not Available.
<b>Incineration Precautions</b>	: ** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **.

## 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, Non-Flammable, Limited Quantity	Aerosols, Limited Quantity
Hazard Class(es)	2.2	2.2	2.2
Packaging Group	None	None	None
Limited Quantity	Yes 	Yes 	Yes 
Marine Pollutant	No	No	No
Hazard Labels		2.2 - Non-flammable gas 	

## SECTION 15 - REGULATORY INFORMATION



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### 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** : To the best of our knowledge none of the ingredients appear in any applicable Federal regulation.

### 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.

#### Nitrogen (7727-37-9)

U.S. - New Jersey - Right to Know Hazardous Substance 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](mailto: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

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**Full text of H-statements**

H Code	H Phrase
H280	Contains gas under pressure; may explode if heated
H319	Causes serious eye irritation