

SAFETY DATA SHEET

Part No. P7733CT (Aerosol)

Print Date: 14/11/2022
Revision Date: 11/14/2022
Supersedes Date: 2/23/2021
Issue Date: 4/4/2017
Version: 6.0 (EN)-US
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Hoppe's Black Cleaner Aerosol 4 oz

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product Name : Hoppe's Black Cleaner Aerosol 4 oz
Manufacturer Product Number : P7733CT
Supplier Product Numbers : HBC4A

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 : Cleaning solvent
Restrictions on Use : None Identified

1.4 Supplier Details

	Manufacturer Details	Supplier Details
Company Name		Bushnell Holdings Inc.
Address		22101 West 167th St., Olathe, KS 66062 - United States
Phone Number		1-800-423-3537
Fax Number		
Email		dangerous.goods@vistaoutdoor.com
Website		

1.5 24 hr Emergency Phone Number

Emergency Number : Emergency Telephone Number (Hazardous Material/Dangerous Goods Transportation Emergency ONLY)
Emergency number: 1-800-424-9300 (Inside US), 01-703-527-3887 (Outside US) - (CHEMTREC, Day or Night)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Flam. Aerosol 1	H222	Physical Hazards	Flammable aerosol Category 1
Press. Gas (Comp.)	H280	Physical Hazards	Gases under pressure Compressed gas
Skin Irrit. 2	H315	Health Hazards	Skin corrosion/irritation Category 2
Eye Dam. 1	H318	Health Hazards	Serious eye damage/eye irritation Category 1
Aquatic Acute 3	H402	Environmental Hazards	Hazardous to the aquatic environment – Acute Hazard Category 3

2.2 Label Elements

Hazard Pictograms



GHS02



GHS04



GHS05

Signal Word

Danger

Hazard Statements

H222 : Extremely flammable aerosol
H280 : Contains gas under pressure; may explode if heated
H315 : Causes skin irritation
H318 : Causes serious eye damage
H402 : Harmful to aquatic life

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Precautionary Statements	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	: Pressurized container: Do not pierce or burn, even after use.
	P264	: Wash hands thoroughly after handling.
	P273	: Avoid release to the environment.
	P280	: Wear protective gloves and eye protection.
	P302+P352	: If on skin: Wash with plenty of water.
	P305+P351+P338	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	: Immediately call physician.
	P332+P313	: If skin irritation occurs: 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 local regulations.

2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : None Identified.

2.4 Unknown acute toxicity

62.68% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
 62.68% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
 64.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (vapors))

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Mixture

Substance / Mixture : Mixture

3.2 Composition

Substance name	CAS Number	% wt*	Classification
Isopropyl Alcohol	67-63-0	10 – 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
2-(2-Butoxyethoxy)Ethanol	112-34-5	5 – 10	Eye Irrit. 2A, H319
2-Butoxyethanol	111-76-2	5 – 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
N-Butane	106-97-8	1 – 5	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Monoethanolamine	141-43-5	1 – 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401
Isobutane	75-28-5	1 – 5	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Propane	74-98-6	1 – 5	Flam. Gas 1, H220 Press. Gas (Diss.), H280

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

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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. Call a physician immediately.
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, Eye Damage, Skin Burns, Confusion, Respiratory Irritation, Skin Irritation, Headache, Dizziness, Nausea, Narcosis, Upper Respiratory Tract Irritation, Drowsiness, Vomiting, Optical Nerve Damage.
Delayed Effects	: No known delayed effects.
Immediate Effects	: No known immediate effects.
Chronic Effects	: Methyl alcohol may be fatal or cause blindness if swallowed.
Target Organs	: Central Nervous System, Eyes, Gastrointestinal Tract, Respiratory System, Skin.

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, vapors. See also Section 10.6.
Specific Hazards During Firefighting	: CONTENTS EXTREMELY FLAMMABLE AND 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 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.

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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. Soak up material with inert absorbent and place in safety containers for proper disposal. Remove sources of ignition and use non-sparking equipment.

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

2-Butoxyethanol (111-76-2)

ACGIH	ACGIH OEL TWA	20 ppm
OSHA	OSHA PEL (TWA) [1]	240 mg/m ³
OSHA	OSHA PEL (TWA) [2]	50 ppm
NIOSH	IDLH [ppm]	700 ppm
NIOSH	NIOSH REL TWA [ppm]	5 ppm
California	California PEL (TWA) (mg/m ³)	97 mg/m ³
California	California PEL (TWA) (ppm)	20 ppm
Biological Exposure Index	Butoxyacetic Acid (BAA) in Urine, End of shift	200 mg/g creatinine

Monoethanolamine (141-43-5)

ACGIH	ACGIH OEL TWA	3 ppm
ACGIH	ACGIH OEL Ceiling	6 ppm
OSHA	OSHA PEL (TWA) [1]	6 mg/m ³
OSHA	OSHA PEL (TWA) [2]	3 ppm
NIOSH	IDLH [ppm]	30 ppm
NIOSH	NIOSH REL TWA [ppm]	3 ppm
NIOSH	NIOSH REL STEL [ppm]	6 ppm
California	California PEL (TWA) (mg/m ³)	8 mg/m ³
California	California PEL (TWA) (ppm)	3 ppm

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Monoethanolamine (141-43-5)		
California	California PEL (STEL) (mg/m ³)	15 mg/m ³
California	California PEL (STEL) (ppm)	6 ppm
Isopropyl Alcohol (67-63-0)		
ACGIH	ACGIH OEL TWA	200 ppm
ACGIH	ACGIH OEL Ceiling	400 ppm
OSHA	OSHA PEL (TWA) [1]	980 mg/m ³
OSHA	OSHA PEL (TWA) [2]	400 ppm
NIOSH	IDLH [ppm]	2000 ppm
NIOSH	NIOSH REL (TWA)	980 mg/m ³
NIOSH	NIOSH REL TWA [ppm]	400 ppm
NIOSH	NIOSH REL (STEL)	1225 mg/m ³
NIOSH	NIOSH REL STEL [ppm]	500 ppm
California	California PEL (TWA) (mg/m ³)	980 mg/m ³
California	California PEL (TWA) (ppm)	400 ppm
California	California PEL (STEL) (mg/m ³)	1225 mg/m ³
California	California PEL (STEL) (ppm)	500 ppm
N-Butane (106-97-8)		
ACGIH	ACGIH OEL TWA	1000 ppm
ACGIH	ACGIH OEL Ceiling	1000 ppm
OSHA	OSHA PEL (TWA) [2]	800 ppm
NIOSH	NIOSH REL (TWA)	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) [1]	1800 mg/m ³
OSHA	OSHA PEL (TWA) [2]	1000 ppm
NIOSH	IDLH [ppm]	2100 ppm
NIOSH	NIOSH REL (TWA)	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 OEL TWA	1000 ppm
NIOSH	NIOSH REL (TWA)	1900 mg/m ³
NIOSH	NIOSH REL TWA [ppm]	800 ppm
2-(2-Butoxyethoxy)Ethanol (112-34-5)		
ACGIH	ACGIH OEL TWA	10 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 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 may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. Under those circumstances, users should be provided with either a half-facepiece (if wearing safety glasses) or a full-facepiece (if not wearing safety glasses) air-purifying respirator, fitted with organic vapor cartridges and P95 filters.

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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	> 82.30 °C	Melting / Freezing Point	> -88.00 °C
Flash Point, Liquid	> 9.70 °C	Flash Point, Propellant	-104.44 °C
Explosive Limits	LEL: 0.70 UEL: 73.00 vol % (v/v%)	Autoignition Temperature, Liquid	> 210.00 °C
Flammability	Extremely Flammable Aerosol	Density	0.893 g/cm ³
Molecular Weight	Not Available	Weight	7.451 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	6499.46 BTU/lb
Appearance / Color	Clear, Colorless	Water Solubility	Not Available
Odor	Solvent	Decomposition Temperature	Not Available

9.2 Environmental Properties

Percent Volatile	47.09 % wt	VOC Regulatory	414.67 g/L (3.46 lbs/gal)
Percent VOC	39.59 % wt	VOC Actual	353.46 g/L (2.95 lbs/gal)
Percent HAP	0.00 % wt	HAP Content	0.00 g/L (0.00 lbs/gal)
Global Warming Potential	0.31 GWP	Maximum Incremental Reactivity	0.8999 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, Heat, Flames, Sparks, Moisture.

10.5 Incompatible Materials

Materials to Avoid : Strong Oxidizing Agents, Alkali Metals, Strong Acids, Aluminum, Potassium t-Butoxide, Halogen Compounds, Bases, Acid Anhydrides, Calcium Hypochlorite, Acids, Hydrogen Peroxide, Perchloric Acid, Nitrating Agents, Cellulose Nitrate, Alkylhalides.

10.6 Hazardous Decomposition Products

Thermal Decomposition : Oxides of carbon, Aldehydes, Formaldehyde.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

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2-Butoxyethanol (CAS: 111-76-2 / EC: 203-905-0)

LD50 Oral (Rat)	917 mg/kg (RTECS)
LD50 Dermal (Rabbit)	1060 mg/kg (Sigma-Aldrich)

Monoethanolamine (CAS: 141-43-5 / EC: 205-483-3)

LD50 Oral (Rat)	1970 mg/kg (ChemInfo)
LD50 Dermal (Rabbit)	1000 mg/kg (ChemInfo)
LC50 Inhalation (Rat)	> 1210 mg/l/4h (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)

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.)
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Isobutane (CAS: 75-28-5 / EC: 200-857-2)

LC50 Inhalation (Rat)	368000 ppm/4h (ChemInfo)
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2-(2-Butoxyethoxy)Ethanol (CAS: 112-34-5 / EC: 203-961-6)

LD50 Oral (Rat)	5660 mg/kg (RTECS)
LD50 Dermal (Rabbit)	4120 mg/kg (IUCLID)

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 damage.
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
Vaporizer	: Aerosol
Carcinogen Data	: The following ingredients are listed as known or suspected carcinogens:

2-Butoxyethanol (CAS: 111-76-2 / EC: 203-905-0)

ACGIH Category	A3 - Confirmed animal carcinogen with unknown relevance to humans
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SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity and Ecological Properties

2-Butoxyethanol (111-76-2)

LC50 Fish	1490 mg/l Bluegill Sunfish - 96h
LC50 Fish	1474 mg/l Rainbow Trout - 96hr
EC50 Daphnia	1698 – 1940 mg/l Water Flea - 24hr
EC50 Other Aquatic Organisms	1840 mg/l Green Algae - 72hr
Persistence and Degradability	Biodegradability 90% / 28 days.
Biochemical Oxygen Demand	0.71 g O ₂ /g substance
Chemical Oxygen Demand	2.2 g O ₂ /g substance
Theoretical Oxygen Demand	2.305 g O ₂ /g substance

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2-Butoxyethanol (111-76-2)

Log Pow	0.81 (Experimental value; BASF test; 25 °C)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).

Monoethanolamine (141-43-5)

LC50 Fish	> 200 mg/l Rainbow Trout - 96hr
EC50 Daphnia	65 mg/l Water Flea - 48hr
EC50 Other Aquatic Organisms	2.8 mg/l Green Algae - 72hr
EC50 Other Aquatic Organisms	110 mg/l Bacteria - 17hr
Persistence and Degradability	Biodegradability 90% / 28 days.
Biochemical Oxygen Demand	800 mg/g
Theoretical Oxygen Demand	1310 mg/g
Log Pow	-1.31
Bioaccumulative Potential	Not bioaccumulative.

Isopropyl Alcohol (67-63-0)

LC50 Fish	9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
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 Degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
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
Biodegradation	95 % 21 DAY
BCF Fish	-2
Log Pow	0.05 (Weight of evidence approach, 25 °C)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	1.4

n-Butane (106-97-8)

Persistence and Degradability	Readily biodegradable in water.
Bioconcentration Factor	33.52
Log Pow	2.89
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	1.641

Propane (74-98-6)

Persistence and Degradability	Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.
BCF Fish	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	26.62
Log Pow	2.76
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500).
Log Koc	1.545

2-(2-Butoxyethoxy)Ethanol (112-34-5)

LC50 Fish	1300 mg/l Bluegill Sunfish - 96h
EC50 Daphnia	> 100 mg/l Water Flea - 48hr
EC50 Other Aquatic Organisms	> 100 mg/l Green Algae - 96hr
Persistence and Degradability	Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available. Photodegradation in the air.
Biochemical Oxygen Demand	0.25 g O ₂ /g substance
Chemical Oxygen Demand	2.08 g O ₂ /g substance
Theoretical Oxygen Demand	2.173 g O ₂ /g substance
Biodegradation	58 % 28 Days

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2-(2-Butoxyethoxy)Ethanol (112-34-5)

BCF Fish	0.46 (BCF)
Log Pow	0.56 (Experimental Value)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	1

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

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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UN Number	UN1263	UN1950	UN1950
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14.2 UN Proper Shipping Name

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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UN Proper Shipping Name	Aerosols, Limited Quantity	Aerosols, Flammable, Limited Quantity	Aerosols, Limited Quantity
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14.3 Transport Hazard Class(es)

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Transport Hazard Class(es)	2.1	2.1	2.1
Labels	None	2.1 - Flammable gas	None



Limited Quantity

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Limited Quantity	Yes 	Yes 	Yes
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EmS Code	Not Applicable	Not Applicable	F-D, S-U
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14.4 Packing Group

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Packing Group	None	None	None
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14.5 Environmental Hazards

	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Marine Pollutant	No	No	No
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14.6 Special Precautions

Precautions : None Identified

14.7 Transport in Bulk

Remarks : Not applicable for product as supplied

SAFETY DATA SHEET

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SECTION 15 - REGULATORY INFORMATION

15.1 Federal Regulations

SARA Section 313 : 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.

Isopropyl Alcohol	CAS-No. 67-63-0	10 – 30%
Methanol	CAS-No. 67-56-1	0.0001 – 0.001%
Formaldehyde	CAS-No. 50-00-0	0.0001 – 0.001%

TSCA Section 12(b) : This product or mixture is not known to contain a chemical or chemicals subject to the export notification requirements of section 12(b) of the Toxic Substances Control Act (TSCA) and 40 CFR Part 707, subpart D

CERCLA Reportable Quantity : Chemical(s) subject to reporting requirements of Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) if released to the environment at or above the reportable quantity

Methanol	CAS-No. 67-56-1	5000 lb
Formaldehyde	CAS-No. 50-00-0	100 lb
Sodium Hydroxide	CAS-No. 1310-73-2	1000 lb

15.2 State Regulations

California Proposition 65 : The product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. This product may contain trace amounts of Bisphenol A (BPA), a chemical known to the State of California to cause birth defects or reproductive harm.

Formaldehyde (50-00-0)	Cancer	Yes	0.0002 %
Methanol (67-56-1)	Developmental Toxicity	Yes	0.0002 %
Formaldehyde (50-00-0)	No significance risk level (NSRL)	40 µg/day	

State Right-to-Know Lists : The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated

2-Butoxyethanol (111-76-2)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
Monoethanolamine (141-43-5)	U.S. - New Jersey - Right to Know Hazardous Substance List
Isopropyl Alcohol (67-63-0)	U.S. - New Jersey - Right to Know Hazardous Substance List
Methanol (67-56-1)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
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
Formaldehyde (50-00-0)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Sodium Hydroxide (1310-73-2)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 - OTHER INFORMATION

Indication of changes :

Section	Changed item	Change
1	Supersedes	Modified
1	Revision date	Modified
9	Density	Modified
9	Explosive limits (vol %)	Modified
9	Boiling point	Modified

Disclaimer of Liability

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