

SAFETY DATA SHEET

Part No. P7732CT (Aerosol)

Print Date: 14/11/2022
Revision Date: 11/14/2022
Supersedes Date: 11/28/2018
Issue Date: 12/16/2016
Version: 5.0 (EN)-US
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Hoppe's Black Lubricant 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 Lubricant Aerosol 4 oz
 Manufacturer Product Number : P7732CT
 Supplier Product Numbers : HBL4A

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 Lubricant
 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
Eye Irrit. 2a	H319	Health Hazards	Serious eye damage/eye irritation Category 2A
Skin Sens. 1	H317	Health Hazards	Skin sensitization, Category 1
Aquatic Acute 3	H402	Environmental Hazards	Hazardous to the aquatic environment – Acute Hazard Category 3

2.2 Label Elements

Hazard Pictograms



Signal Word

Danger

Hazard Statements

H222 : Extremely flammable aerosol
 H280 : Contains gas under pressure; may explode if heated
 H317 : May cause an allergic skin reaction
 H319 : Causes serious eye irritation
 H402 : Harmful to aquatic life

Precautionary Statements

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P211	: Do not spray on an open flame or other ignition source.
P251	: Pressurized container: Do not pierce or burn, even after use.
P261	: Avoid breathing spray.
P264	: Wash hands thoroughly after handling.
P272	: Contaminated work clothing must not be allowed out of the workplace.
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.
P333+P313	: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	: If eye irritation persists: Get medical advice/attention.
P363	: Wash contaminated clothing 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

54.63% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
54.63% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
34.63% 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
Ethanol	64-17-5	30 – 60	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Propane	74-98-6	5 – 10	Flam. Gas 1, H220 Press. Gas (Diss.), H280
N-Butane	106-97-8	5 – 10	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Isobutane	75-28-5	1 – 5	Flam. Gas 1, H220 Press. Gas (Diss.), H280
Calcium Bis(Dinonylnaphthalenesulphonate)	57855-77-3	0.1 – 1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400
Alkyl Dithiophosphate	Confidential	0.1 – 1	Skin Sens. 1, H317

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

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

SECTION 4 - FIRST-AID MEASURES

4.1 Description of First-Aid Measures

General Measures	: Get medical advice/attention if you feel unwell.
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 or rash 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.

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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, Confusion, Skin Irritation, Dizziness, Narcosis, Drowsiness.
Delayed Effects : No known delayed effects.
Immediate Effects : No known immediate effects.
Chronic Effects : No known chronic effects.
Target Organs : Central Nervous System, Eyes, 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 : Extremely flammable. 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 an ignition source.

5.3 Special Protective Actions for Fire-Fighters

Firefighting Instructions : Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure.
Protection during Firefighting : Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel : No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.
For Emergency Personnel : Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.

6.2 Environmental Precautions

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

6.3 Methods and Materials for Containment and Cleaning up

Containment Procedures : Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents.
Cleanup Procedures : Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

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- 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 2 Aerosol per NFPA 30B

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

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/m3)	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/m3)	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

Ethanol (64-17-5)

ACGIH	ACGIH OEL Ceiling	1000 ppm
OSHA	OSHA PEL (TWA) [1]	1900 mg/m ³
OSHA	OSHA PEL (TWA) [2]	1000 ppm
NIOSH	IDLH [ppm]	3300 ppm
NIOSH	NIOSH REL (TWA)	1900
NIOSH	NIOSH REL TWA [ppm]	1000 ppm
California	California PEL (TWA) (mg/m3)	1900 mg/m ³
California	California PEL (TWA) (ppm)	1000 ppm

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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.
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	: Respiratory protection is not anticipated to be needed.
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	> 78.00 °C	Melting / Freezing Point	> -114.15 °C
Flash Point, Liquid	> 14.00 °C	Flash Point, Propellant	-104.44 °C
Explosive Limits	LEL: 3.30 UEL: 19.00 vol % (v/v%)	Autoignition Temperature, Liquid	> 260.00
Flammability	Extremely Flammable Aerosol	Density	0.789 g/cm ³
Molecular Weight	Not Available	Weight	6.583 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	8881.05 BTU/lb
Appearance / Color	Clear, Colorless	Water Solubility	Not Available
Odor	Characteristic	Decomposition Temperature	Not Available

9.2 Environmental Properties

Percent Volatile	63.76 % wt	VOC Regulatory	502.93 g/L (4.20 lbs/gal)
Percent VOC	63.20 % wt	VOC Actual	498.51 g/L (4.16 lbs/gal)
Percent HAP	0.00 % wt	HAP Content	0.00 g/L (0.00 lbs/gal)
Global Warming Potential	0.63 GWP	Maximum Incremental Reactivity	0.9227 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.

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10.5 Incompatible Materials

Materials to Avoid : Strong Oxidizing Agents, Alkali Metals, Halogen Compounds, Hydrogen Peroxide, Sulfuric Acid.

10.6 Hazardous Decomposition Products

Thermal Decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

LC50 Inhalation (Rat)	368000 ppm/4h (ChemInfo)
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Ethanol (CAS: 64-17-5 / EC: 200-578-6)

LD50 Oral (Rat)	10740 mg/kg (MERCK)
LD50 Dermal (Rabbit)	> 15800 mg/kg (ChemInfo)
LC50 Inhalation (Rat)	124.7 mg/l/4h (MERCK)
LC50 Inhalation (Rat)	32380 ppm/4h (ChemInfo)

Calcium Bis(Dinonylnaphthalenesulphonate) (CAS: 57855-77-3 / EC: 260-991-2)

LD50 Oral (Rat)	> 5000 mg/kg (RTECS)
LD50 Dermal (Rabbit)	> 20000 mg/kg (RTECS)
LC50 Inhalation (Rat)	> 18000 mg/m ³ (RTECS)

Alkyl Dithiophosphate (CAS: Confidential / EC:)

LD50 Oral (Rat)	11300 mg/kg (Lit.)
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Routes Of Exposure : Eye Contact, Ingestion, Skin Contact, Inhalation.

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

Skin Corrosion/Irritation : Not classified

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 : Not classified

STOT-Repeated Exposure : Not classified

Aspiration Hazard : Not classified

Vaporizer : Aerosol

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.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity and Ecological Properties

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

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Propane (74-98-6)	
<i>Persistence and Degradability</i>	<i>Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.</i>
<i>BCF Fish</i>	<i>9 – 25 (BCF)</i>
<i>Log Pow</i>	<i>2.28 (Calculated)</i>
<i>Bioaccumulative Potential</i>	<i>Low potential for bioaccumulation (Log Kow < 4).</i>
Isobutane (75-28-5)	
<i>Persistence and Degradability</i>	<i>Readily biodegradable in water. Biodegradable in the soil. Not applicable (gas).</i>
<i>BCF Fish</i>	<i>26.62</i>
<i>Log Pow</i>	<i>2.76</i>
<i>Bioaccumulative Potential</i>	<i>Low potential for bioaccumulation (BCF < 500).</i>
<i>Log Koc</i>	<i>1.545</i>
Ethanol (64-17-5)	
<i>LC50 Fish</i>	<i>14200 mg/l Fathead Minnow - 96h</i>
<i>EC50 Daphnia</i>	<i>9268 – 14221 mg/l Water Flea - 48hr</i>
<i>Persistence and Degradability</i>	<i>Biodegradability 94% / 28 days.</i>
<i>Biochemical Oxygen Demand</i>	<i>0.8 – 0.967 g O₂/g substance</i>
<i>Chemical Oxygen Demand</i>	<i>1.7 g O₂/g substance</i>
<i>Theoretical Oxygen Demand</i>	<i>2.1 g O₂/g substance</i>
<i>Log Pow</i>	<i>-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C)</i>
<i>Bioaccumulative Potential</i>	<i>Low potential for bioaccumulation (Log Kow < 4).</i>
Calcium bis(dinonylnaphthalenesulphonate) (57855-77-3)	
<i>LC50 Fish</i>	<i>0.28 mg/l 96hr</i>
<i>EC50 Daphnia</i>	<i>0.27 mg/l 48hr</i>
<i>BCF Fish</i>	<i>3.16</i>
<i>Log Pow</i>	<i>11.12</i>
<i>Log Kow</i>	<i>6.6</i>
Alkyl Dithiophosphate (Confidential)	
<i>LC50 Fish</i>	<i>> 100 mg/l</i>
<i>EC50 Daphnia</i>	<i>> 100 mg/l</i>
<i>EC50 Other Aquatic Organisms</i>	<i>> 100 mg/l</i>

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)
UN Number	UN1950	UN1950	UN1950
14.2 UN Proper Shipping Name	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Proper Shipping Name	Aerosols, Limited Quantity	Aerosols, Flammable, Limited Quantity	Aerosols, Limited Quantity


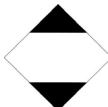

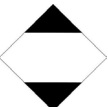
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14.3 Transport Hazard Class(es)	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Transport Hazard Class(es) :	2.1	2.1	2.1
Labels :	None	2.1 - Flammable gas	None
			
Limited Quantity :	Yes 	Yes 	Yes 
EmS Code :	Not Applicable	Not Applicable	F-D, S-U
14.4 Packing Group	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Packing Group :	None	None	None
14.5 Environmental Hazards	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Marine Pollutant :	No	No	No
14.6 Special Precautions			
Precautions :	None Identified		
14.7 Transport in Bulk			
Remarks :	Not applicable for product as supplied		

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.		
	<i>T-Butyl Alcohol</i>	CAS-No. 75-65-0	0.01 – 0.1%
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	: This product or mixture is not known to contain a chemical or chemicals subject to the release reporting requirements of section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)		
15.2 State Regulations			
California Proposition 65	: 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.		
State Right-to-Know Lists	: The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated		
	<i>n-Butane (106-97-8)</i>	U.S. - New Jersey - Right to Know Hazardous Substance List	
	<i>Propane (74-98-6)</i>	U.S. - New Jersey - Right to Know Hazardous Substance List	
	<i>Isobutane (75-28-5)</i>	U.S. - New Jersey - Right to Know Hazardous Substance List	
	<i>Ethanol (64-17-5)</i>	U.S. - New Jersey - Right to Know Hazardous Substance List	
	<i>T-Butyl Alcohol (75-65-0)</i>	U.S. - New Jersey - Right to Know Hazardous Substance List	

SECTION 16 - OTHER INFORMATION

Indication of changes	Section	Changed item	Change
	1	Revision date	Modified
	1	Supersedes	Modified
	2.1	GHS-US classification	Modified

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2.2	Precautionary statements (GHS US)	Modified
2.2	Hazard statements (GHS US)	Modified
6	For containment	Added
9	Boiling point	Modified
9	Explosive limits (vol %)	Modified
9	Flash point	Modified
9	Auto-ignition temperature	Modified
9	Density	Modified
10	Reactivity	Modified
12.1	Ecology - general	Modified

Disclaimer of Liability

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