



MATERIAL SAFETY DATA SHEET

CLEANER/DEGREASER

Revision 1 ♦ January 27, 2010

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SECTION 1 • PRODUCT AND COMPANY IDENTIFICATION

Product Numbers 1720
 Product Name Hoppe's Cleaner / Degreaser
 Synonyms None
 Products Uses Cleaner and degreaser for firearms
 Revision Number 1
 Revision Date October 6, 2009
 Print Date January 27, 2010

**24 hr Emergency
Phone Number**

800-255-3924
(CHEM-TEL)

MANUFACTURER INFORMATION		DISTRIBUTOR INFORMATION	
Company Name	Tri-Pac Inc.	Company Name	Bushnell
Address	17336 M-60 East Vandalia, MI 49095	Address	9200 Cody Overland Park, KS 66214
Phone Number	269-476-2303	Phone Number	800-423-3537
Fax Number	269-476-2302	Fax Number	913-752-3570

SECTION 2 • HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	DANGER! POISON. CONTENTS FLAMMABLE. VAPOR MAY FORM AN EXPLOSIVE MIXTURE WITH AIR. VAPOR CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. EYE IRRITANT. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.
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OSHA Classification *This product is a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.*

European Classification *F, T, Xi
R 11-36-39/23/24/25-67
S 1/2-7-16-24/25-26-36/37-45*

WHMIS Classification *B2, D1B, D2A, D2B*



HEALTH HAZARDS		PHYSICAL HAZARDS			
Irritant <input checked="" type="checkbox"/>	Sensitizer <input type="checkbox"/>	Combustible <input type="checkbox"/>	Explosive <input type="checkbox"/>	Pyrophoric <input type="checkbox"/>	
Toxic <input checked="" type="checkbox"/>	Highly Toxic <input type="checkbox"/>	Flammable <input checked="" type="checkbox"/>	Oxidizer <input type="checkbox"/>	Water Reactive <input type="checkbox"/>	
Corrosive <input type="checkbox"/>	Carcinogenic <input type="checkbox"/>	Compressed Gas <input type="checkbox"/>	Organic Peroxide <input type="checkbox"/>	Unstable <input type="checkbox"/>	

LABELING REQUIREMENTS			
CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS
	 DANGER POISON - CONTENTS EXTREMELY FLAMMABLE - EYE IRRITANT		



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POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact	<i>Liquid contact may cause pain along with moderate eye irritation.</i>
Skin Contact	<i>Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying or flaking of skin. May cause more severe response if confined to skin.</i>
Ingestion	<i>Poison - May be fatal or cause blindness if swallowed. Cannot be made nonpoisonous. 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.</i>
Inhalation	<i>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.</i>
Effects of Chronic Exposure	<i>Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome"). Intentional misuse by concentrating and inhaling this product may be harmful or fatal.</i>
Medical Conditions Aggravated	<i>May aggravate personnel with pre-existing disorders associated with any of the Target Organs.</i>
Types of Hazards	<i>Sensory Irritation (isopropyl alcohol), Neuropathy (methyl alcohol)</i>
Target Organs	<i>Eyes, Skin, Respiratory System, Central Nervous System, Gastrointestinal Tract</i>
Routes of Exposure	<i>Skin contact, skin absorption, eye contact, inhalation, ingestion</i>
Potential Environmental Effects	<i>See Section 12 for environmental effects</i>

SECTION 3 • COMPOSITION / INFORMATION ON INGREDIENTS

ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	% WT
1	<i>Isopropyl Alcohol</i>	<i>000067-63-0</i>	<i>200-661-7</i>	<i>F, Xi; 11-36-67</i>	<i>60 - 100</i>
2	<i>Methyl Alcohol</i>	<i>000067-56-1</i>	<i>200-659-6</i>	<i>F, T; 11-39/23/24/25</i>	<i>3 - 7</i>

Risk Phrases	<i>See Section 15 for risk phrase text</i>
LD50 and LC50 Information	<i>See Section 11 for toxicological information</i>
Occupational Exposure Limits	<i>See Section 8 for OELs</i>

SECTION 4 • FIRST AID MEASURES

Ingestion	<i>DO NOT INDUCE VOMITING! ASPIRATION HAZARD. This material may enter the lungs during vomiting. Immediately have the victim drink plenty of water. Keep airways free. Contact a physician immediately. Never give anything by mouth if victim is rapidly losing consciousness, unconscious, or convulsing.</i>
Skin Contact	<i>Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.</i>
Eye Contact	<i>Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.</i>
Inhalation	<i>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.</i>
Notes to Physician	<i>Treat symptomatically.</i>
Antidotes	<i>No specific antidote.</i>

SECTION 5 • FIRE FIGHTING MEASURES

Flash Point	<i>> 52 °F (11.0 °C)</i>
Autoignition Temperature	<i>725 °F (385.0 °C)</i>
Explosive Limits	<i>2.00% to 36.00%</i>
Conditions of Flammability	<i>Heat, sparks, flame, red hot metal</i>



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Extinguishing Media	<i>Water, CO₂, dry chemical, or universal aqueous film forming foam</i>
Unsuitable Extinguishing Media	<i>Water jet</i>
Hazardous Combustion Products	<i>Oxides of carbon (CO, CO₂), smoke, and vapors</i>
Sensitivity to Mechanical Impact	<i>Probably not sensitive as material is stable.</i>
Sensitivity to Static Discharge	<i>Vapor within the flammable limits may be ignited by a static discharge of sufficient energy.</i>
Special Equipment and Precautions	<i>Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed pressure. Firemen should wear self-contained breathing apparatus.</i>
Special Explosion Hazards	<i>FLAMMABLE LIQUID. Vapors can form an explosive mixture with air and can travel to a source of ignition (spark or flame) and flash back.</i>
Autoreactivity / Oxidizing Properties	<i>Not available</i>

SECTION 6 • ACCIDENTAL RELEASE MEASURES

Personal Precautions	<i>Use personal protection recommended in Section 8.</i>
Environmental Precautions	<i>Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent.</i>
Containment Procedures	<i>Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.</i>
Cleanup Procedures	<i>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.</i>
Other Information	<i>Consult the North American Emergency Response Guidebook or similar resources providing emergency response information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.</i>
Prohibited Materials	<i>Combustible absorbent material such as sawdust, use of equipment that may cause sparking.</i>
Reporting Requirements	<i>Report releases that reach surface water or groundwater in any amount. Spills, leaks, and overfills from a regulated underground storage tank should also be reported. Reportable quantities for spills onto the ground depend on site conditions, such as the type of soil and the type of material spilled, and Federal and local agencies often have different reportable quantities.</i>

SECTION 7 • HANDLING AND STORAGE

Precautions for Safe Handling / Use	<i>KEEP OUT OF THE REACH OF CHILDREN.</i>
Storage Requirements / Conditions	<i>For storage of all flammable materials, conform to NFPA 30 Flammable and Combustible Liquid. Keep containers tightly closed and stored in a well-ventilated place. Keep away from sources of ignition.</i>
Special Packaging Materials	<i>Not applicable.</i>

SECTION 8 • EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

ID	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	UNITED STATES ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL
1	400 ppm	2000 ppm	400 ppm	400 ppm	None Established	400 ppm	400 ppm
2	200 ppm	200 ppm	6000 ppm	200 ppm	200 ppm	200 ppm	200 ppm

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWA/EV	CANADA QUEBEC TWA	MEXICO MP/L-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	400 ppm	200 ppm	200 ppm	400 ppm	400 ppm	None Established	None Established
2	200 ppm	200 ppm	200 ppm	200 ppm	200 ppm	1000 ppm	None Established

Engineering Measures	<i>Use with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. 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.</i>
Biological Exposure Indices	<i>None Established</i>
General Hygiene Considerations	<i>Avoid breathing vapors and contact with the skin and eyes. Always replace overcap when not in use. Keep out the reach of children. Wash hands after use.</i>
Thermal Hazards	<i>This product does not present a thermal hazard.</i>



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PERSONAL PROTECTIVE EQUIPMENT



Respiratory Protection	<i>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.</i>
Skin Protection	<i>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.</i>
Eye/Face Protection	<i>Safety glasses with side shields are recommended as a minimum for any type of chemical handling.</i>
Other Protective Equipment	<i>Safety showers and eye-wash stations should be available in the near where the material will be used.</i>

SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	> 148 °F (64.6 °C)	Melting / Freezing Point	> -144 °F (-97.7 °C)
Flash Point	> 52 °F (11.0 °C)	Autoignition Temperature, Liquid	725 °F (385.0 °C)
Explosive Limits	2.00% to 36.00%	Decomposition Temperature	Not Available
Flammability	Class IB Flammable Liquid	Density (H ₂ O = 1)	0.782 g/cc
Molecular Weight	Not Available	Weight	6.524 lbs/gal
Vapor Pressure	52.73 mm Hg	pH	Not Available
Vapor Density	2.07 g/cc Maximum	Evaporation Rate (BuAC = 1)	> 2.10
Physical State	Liquid	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion	Not Available
Odor	Alcohol	Water Solubility	Complete
Appearance / Color	Clear		
Percent Volatile	100% Wt (100% Vol) Max	VOC Content	6.524 lbs/gal (781.785 g/L)
Percent VOC	100% Wt (100% Vol) Max	HAP Content	0.326 lbs/gal (39.089 g/L)
Solids Content	None	Maximum Incremental Reactivity	0.710 g O ₃ /g

SECTION 10 • STABILITY AND REACTIVITY

Stability	Stable
Physical Hazards	Flammable
Conditions to Avoid	Not Available
Hazard Polymerization	Not expected to occur
Material Incompatibility	<i>Strong oxidizing agents, aluminum, trinitromethane, copper, carbon tetrachloride, hydrogen peroxide, potassium tert-butoxide, acids, perchloric and permonosulfuric acids, isocyanates, acetyl bromide, alkali metals, diethyl zinc</i>
Conditions of Reactivity	<i>Heat, sparks, flame, red hot metal</i>
Decomposition Products	<i>Oxides of carbon</i>



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SECTION 11 • TOXICOLOGICAL INFORMATION

Irritancy of Product *The following ingredients are eye irritants: Isopropyl Alcohol, Methyl Alcohol*
 Sensitization to Product *None of the ingredients are considered known or suspected sensitizers.*
 Carcinogen Data *None of the ingredients are considered known or suspected carcinogens.*
 Reproductive Toxicity *None of the ingredients are considered known or suspected reproductive toxicants.*
 Teratogenicity *The following ingredients are considered teratogens: Isopropyl Alcohol, Methyl Alcohol*
 Mutagenicity *None of the ingredients are considered known or suspected mutagens.*
 Synergistic Products *No known synergistic properties.*

LD50 and LC50 Information

ID	ORAL LD50	DERMAL LD50	INHALATION LC50
1	5045 mg/kg, rat	12800 mg/kg, rabbit	46 mg/L /4hr, rat
2	5628 mg/kg, rat	15800 mg/kg, rabbit	64000 ppm /4hr, rat

SECTION 12 • ECOLOGICAL INFORMATION

Mobility *Not Available*
 Persistence *Not Available*
 Degradability *Not Available*
 Bioaccumulation *Not Available*
 Other Ecologic Data *Do not allow to enter waters, waste water, or soil.*
 Effects on the Ozone Layer *This product does not contain any ozone depleting ingredients.*

Ecotoxicity

ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	LC50: 9460 mg/L /96 hr	EC50: 9714 mg/L /24 hr	EC50: >1000 mg/L /96 hr	EC50: 35000 mg/L /5 days
2	LC50: 15400 mg/L /96 hr	EC50: >10000 mg/L /24 hr	EC50: 28.44 g/L /96 hr	IC50: 990 mg/L /24 hr



SECTION 13 • DISPOSAL CONSIDERATIONS

Waste Disposal *Product is suitable for burning in an enclosed, controlled burner for fuel value. Hazard characteristics and regulatory waste stream classification can change with product use and location. Accordingly, 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 material must be disposed of in compliance with the respective national, federal, state, and/or local regulations.*

Waste Disposal of Packaging *Consult with your local landfill to determine if empty small containers can be disposed of regular trash pickup. For disposal of large containers (typically 10 gallon or larger), or for containers not suitable for landfill, a licensed reconitioner should be used.*

Landfill Precautions *Not Available*
 Incineration Precautions *Not Available*

SECTION 14 • TRANSPORTATION INFORMATION

DOT SHIPPING INFORMATION (United States)	ICAO/IATA SHIPPING INFORMATION (International Air)
 <p>PROPER SHIPPING NAME: . . . Consumer Commodity HAZARD CLASS: ORM-D PACKING GROUP: - UN or ID NUMBER: - NAERG GUIDE NUMBER: 171</p>	 <p>PROPER SHIPPING NAME: . . Flammable Liquid NOS (Isopropanol/Methanol Mixture), Limited Quantity HAZARD CLASS: 3 PACKAGING GROUP: II UN or ID NUMBER: UN 1993</p>



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IMDG SHIPPING INFORMATION (International Ocean)

UN1993

PROPER SHIPPING NAME: . . . Flammable Liquid NOS
(Isopropanol/Methanol Mixture), Limited Quantity

CLASS: 3

PACKAGING GROUP: II

SUBSIDIARY RISK(S): -

UN or ID NUMBER: UN 1993

PACKING INSTRUCTIONS: . . . P001

EmS NO.: F-E, S-E

STOWAGE: Category B

MFAG NO.: 310, 313

ADR SHIPPING INFORMATION (European Union)

LQ

PROPER SHIPPING NAME: . . . Flammable Liquid NOS
(Isopropanol/Methanol Mixture), Limited Quantity

ADR CLASS: 3

PACKAGING GROUP: -

UN or ID NUMBER: UN 1993

CLASSIFICATION CODE: F1

HAZARD IDENTIFICATION NO: 33

EMERGENCY ACTION CODE: . ♦ 3YE

TDG SHIPPING INFORMATION (Canada)

LIMITED QUANTITY

PROPER SHIPPING NAME: . . . Flammable Liquid NOS
(Isopropanol/Methanol Mixture), Limited Quantity

HAZARD CLASS: 3

PACKAGING GROUP: II

UN or ID NUMBER: UN 1993

NMFC DESCRIPTION (United States)

ITEM DESCRIPTION: Compounds Cleaning

ITEM NUMBER: 48580 Sub 3

CLASS: 55

Special Transport Precautions Not Available

SECTION 15 • REGULATORY INFORMATION

United States - Federal

ID	TSCA INVENTORY	SARA 302 EHS	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT	CLEAN WATER ACT
1	✓	—	—	—	—	✓	—	✓	✓	—	—	—
2	✓	—	U154	5000#	5%	✓	—	✓	✓	—	HAP	—

United States - States

ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	—	—	✓	2,4,5,6 F9	E	ANO	✓	—	✓
2	—	—	✓	2,4,5,6 F8 F9	E	ANO	✓	✓	✓

Canada

ID	WHMIS CATEGORIES									CHEMICAL LISTS			
	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	B2	—	—	—	—	—	—	—	—	✓	—	1A, 5	—
2	B2	—	—	—	✓	✓	✓	—	—	✓	—	1A, 5	—

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

European Union

CODE	RISK PHRASES
R 11	Highly Flammable
R 36	Irritating to the eyes
R 39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R 67	Vapors may cause drowsiness and dizziness

CODE	SAFETY PHRASES
S 1/2	Keep locked up and out of the reach of children
S 7	Keep container tightly closed
S 16	Keep away from source of ignition - No smoking
S 24/25	Avoid contact with skin and eyes
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 36/37	Wear suitable protective clothing and gloves
S 45	In case of accident or you feel unwell, seek medical advice immediately

RoHS Compliance



This product is RoHS compliant according to the definitions and restrictions given by Directive 2002/95/EC and The Council of January 27, 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



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Australia
Poisons Schedule Number *None of the ingredients are present at or above a concentration necessary for allocation of a Poisons Schedule Number.*
Chemical Inventory Status *All of the ingredients are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.*

SECTION 16 • OTHER INFORMATION

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.*

Revision History *Revision 1, 01/27/2010, Original*
MSDS Prepared By *Hazard Communication Associates, msds@hazcom411.com*