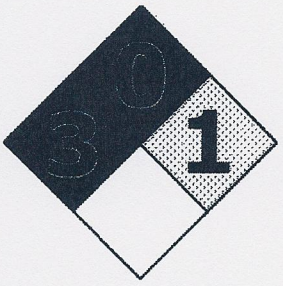
MATERIAL SAFETY DATA SHEET

Gun Blue
Part No. 1702 Liquid
Revision 1 ❖ August 27, 2007

EMERGENCY OVERVIEW

CONTENTS POISON – CORROSIVE! LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR INHALED.



SECTION 1 ● CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: *Bushnell Outdoor Accessories*
9200 Cody
Overland Park, KS 66214

SUPPLIER: *Bushnell Outdoor Accessories*
9200 Cody
Overland Park KS 66214

INFORMATION NUMBER: *800-423-3537*
FAX NUMBER: 913-752-3550
24hr EMERGENCY: *800-535-5053 (24hr) Info Trac*

SUPPLIER PHONE: *913-752-3400*
SUPPLIER FAX: *913-752-3550*
SUPPLIER 24hr: *800-535-5053 (24hr) Info Trac*

PRODUCT NUMBER: *1702*
PRODUCT DESCRIPTION: *#9 Gun Blue*

SUPPLIER NUMBER: *1702*

PRODUCT TYPE: *Liquid*
CAS NUMBER: *Mixture*
EMAIL:
WEBSITE: *www.bushnell.com*

REVISION NUMBER: *1*
REVISION DATE: *June 29, 2007*
PRINT DATE: *August 27, 2007*
PREPARED BY:

SECTION 2 ● COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	OSHA PEL	NIOSH REL	ACGIH PEL	IDLH	% WT
Water	*007732-18-5*	*N/E*	*N/E*	*N/E*	*N/E*	*< 100*
Selenium Dioxide	*007446-08-4*	*0.2 mg/m3*	*N/E*	*N/E*	*N/E*	*< 10*
Cupric Sulfate	*007758-98-7*	*1 mg/m3*	*N/E*	*1 mg/m3*	*N/E*	*< 10*
Hydrochloric Acid	*007647-01-0*	*C 5 ppm*	*C 5 ppm*	*C 2 ppm*	*50 ppm*	*< 10*

See Section 11 for LD50 and LC50 Species/Route Information. *See Sections 15 and 16 for Symbol Letters and R Phases.*

SECTION 3 ● HAZARD IDENTIFICATION

ROUTES OF ENTRY:

Skin Contact	✓	Skin Absorption	✓	Eye Contact	✓	Inhalation	✓	Ingestion	✓

EFFECTS OF ACUTE EXPOSURE

EYE: *Corrosive! Vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.*
SKIN: *Corrosive! Can cause redness, pain, and severe skin burns. Concentrated solutions cause deep ulcers and discolor skin.*
INGESTION: *Corrosive! Swallowing hydrochloric acid can cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract. May cause nausea, vomiting, and diarrhea, and in severe cases, death.*
INHALATION: *Corrosive! Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract, and in severe cases, pulmonary edema, circulatory failure, and death.*

OTHER HEALTH HAZARD DATA

EFFECTS OF CHRONIC EXPOSURE: *Not available*
MEDICAL CONDITIONS AGGRAVATED: *Persons with pre-existing eye/skin disorders may be susceptible to the effects of this product.*
PRIMARY HAZARDS: *Corrosive*
CARCINOGEN DATA: *None of the ingredients are listed with OSHA, NTP, IARC, or ACGIH as being carcinogenic.*
TARGET ORGANS: *Eyes, skin, respiratory system*

MATERIAL SAFETY DATA SHEET

OSHA HAZARD CLASSIFICATIONS

HEALTH HAZARD CLASSIFICATION				PHYSICAL HAZARD CLASSIFICATION					
Irritant	✓	Sensitizer		Combustible		Explosive		Pyrophoric	
Toxic	✓	Highly Toxic		Flammable		Oxidizer		Water Reactive	
Corrosive	✓	Carcinogenic		Compressed Gas		Organic Peroxide		Unstable	

SECTION 4 ● FIRST AID MEASURES

INGESTION: *Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2 to 8 oz) of water. If vomiting occurs naturally, have victim rinse mouth with water again. Contact Poison Control Center immediately. Seek immediate medical care.*

SKIN: *Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately If large skin area is affected, remove contaminated clothing.*

EYE: *Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician.*

INHALATION: *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.*

NOTES TO PHYSICIAN: *No data*

SECTION 5 ● FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY: *Heat, sparks, flame, red hot metal*

SUITABLE MEANS OF EXTINCTION: *Water or water spray. Neutralize with soda ash or slaked lime.*

UNSUITABLE EXTINGUISHING MEDIA: *Not available*

FLASH POINT AND METHOD OF DETERMINATION: *None*

FLAMMABLE LIMITS: ***Lower (LEL):*** *None* ***Upper (UEL):*** *None*

AUTOIGNITION TEMPERATURE: *None*

HAZARDOUS COMBUSTION PRODUCTS: *Oxides of Carbon (CO, CO2), smoke, and vapors as products of incomplete combustion. May react with metals or heat to release flammable hydrogen gas.*

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: *No data*

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: *No data*

SPECIAL FIRE FIGHTING PROCEDURES: *Use water spray to cool fire exposed containers as contents can rupture violently from heat developed pressure. Firemen should wear self-contained breathing apparatus.*

SPECIAL FIRE AND EXPLOSION HAZARDS: *Contents corrosive.*

SECTION 6 ● ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: *Report spills/releases as required to appropriate authorities. Some regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks.*

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: *Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.*

ENVIRONMENTAL PRECAUTIONS: *Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil or vegetation.*

SECTION 7 ● HANDLING AND STORAGE

Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat and incompatible materials. Do not wash out container and use it for other purposes. When diluting, always add the acid to water; never add water to the acid. When opening metal containers, use non-sparking tools because of the possibility of hydrogen gas being present. Protect from freezing.

Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

MATERIAL SAFETY DATA SHEET

SECTION 8 ● EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES: *Since this product is a mixture, an exposure value is not available. In determination of any exposure procedures, protection, or testing, use the lowest rated ingredient from Section 2.*

ENGINEERING AND EXPOSURE CONTROLS: *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 PEL rated ingredient from Section 2.*

RESPIRATORY PROTECTION: *If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with an acid gas cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are needed, compliance with OSHA standard 29 CFR 1910.134 is necessary within the United States.*

SKIN AND HAND PROTECTION: *Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.*

EYE PROTECTION: *Use chemical safety goggles and/or a full face shield where splashing is possible.*

OTHER PROTECTIVE EQUIPMENT: *Safety showers and eye-wash stations should be available in the workplace near where the material will be used.*

HYGIENE MEASURES: *Avoid breathing vapors and contact with the skin or eyes. Keep out the reach of children. Wash hands after use.*

SECTION 9 ● PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: ..... *> 180 F*
SPECIFIC GRAVITY (H_2O=1): ... *1.035 g/cc*
VAPOR PRESSURE: ..... *17.99 mm Hg*
VAPOR DENSITY: *1.27*
PHYSICAL STATE: ..... *Liquid*
PERCENT VOLATILE: ..... *97% Wt (99% Vol) Max*
PERCENT VOC: ..... *0% Wt (0% Vol) Max*
VISCOSITY: ..... *Not available*
ODOR THRESHOLD: ..... *Approx 10 ppm*
APPEARANCE: ..... *Clear Blue Liquid*

MELTING/FREEZING POINT: ... *> -50 F*
WEIGHT: ..... *8.634 lbs/gal*
pH: *2*
EVAPORATION RATE: ..... *Not available*
WATER SOLUBILITY: ..... *Complete*
VOC CONTENT: ..... *0.0 lbs/gal*
HAP CONTENT: ..... *0.0 lbs/gal*
MIR VALUE: *0.0*
COEFF. OF WATER/OIL DIST.: .. *Not available*
ODOR: ..... *Pungent*

SECTION 10 ● STABILITY AND REACTIVITY

STABILITY: ..... *Stable*
CONDITIONS OF INSTABILITY: . *Not available*
HAZARD POLYMERIZATION: .. *Not expected to occur*
MATERIAL INCOMPATIBILITY: . *Amines, copper, alkalis, hydroxides, bases*
CONDITIONS OF REACTIVITY: . *Extreme heat*
DECOMPOSITION PRODUCTS: . *When heated to decomposition, emits toxic hydrogen chloride fumes and will react with water or steam to produce heat and toxic and corrosive fumes. Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas.*

SECTION 11 ● TOXICOLOGICAL INFORMATION

IRRITANCY OF PRODUCT: .... *This product is irritating to the skin and eyes*
SENSITIZATION TO PRODUCT: *Not available*
REPRODUCTIVE TOXICITY: ... *Not available*
TERATOGENICITY: ..... *Not available*
MUTAGENICITY: ..... *Not available*
SYNERGISTIC PRODUCTS: ... *Not available*

LD50 AND LC50 SPECIES/ROUTE INFORMATION:

INGREDIENT	ORAL LD50	DERMAL LD50	INHALATION LC50
Water	>90000 mg/kg, rat	Not available	Not available
Selenium Dioxide	68.1 mg/kg, rat	4 mg/kg, rabbit	Not available
Cupric Sulfate	300 mg/kg, rat	1000 mg/kg, rabbit	Not available
Hydrochloric Acid	900 mg/kg, rabbit	1449 mg/kg, mouse	3124 ppm /1hr, rat

MATERIAL SAFETY DATA SHEET

SECTION 12 ● ECOLOGICAL INFORMATION

ECOTOXICITY:

INGREDIENT	FISH LC50	DAPHNIA EC50	ALGEAL IC50	BACTERIAL EC50
Water	Not available	Not available	Not available	Not available
Selenium Dioxide	Not available	Not available	Not available	Not available
Cupric Sulfate	0.75 mg/l /96 hr	Not available	Not available	Not available
Hydrochloric Acid	282 mg/l /96 hr	56 mg/l /72 hr	Not available	Not available

MOBILITY: . . . . . *Not available*
PERSISTANCE: . . . . . *Not available*
DEGRADIBILITY: . . . . . *Not available*
BIOACCUMULATION: . . . . . *Not available*
OTHER ECOLOGIC DATA: . . . . . *Do not allow to enter waters, waste water, or soil. This product is very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.*
EFFECT ON OZONE LAYER: . . *This product does not contain any ozone depleting ingredients.*

SECTION 13 ● DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 ● TRANSPORTATION INFORMATION

DOT SHIPPING INFORMATION (United States)

PROPER SHIPPING NAME: . . . . *Consumer Commodity*
HAZARD CLASS: . . . . . *ORM-D*
PACKING GROUP: . . . . . *None*
UN or ID NUMBER: . . . . . *None*

ICAO/IATA SHIPPING INFORMATION (International Air)

PROPER SHIPPING NAME: . . . . *Consumer Commodity*
HAZARD CLASS: *9*
PACKAGING GROUP: . . . . . *None*
UN or ID NUMBER: *ID8000*

TDG SHIPPING INFORMATION (Canada)

PROPER SHIPPING NAME: . . . . *Hydrochloric Acid Solution, Limited Quantity*
HAZARD CLASS: *8*
PACKAGING GROUP: . . . . . *III*
UN or ID NUMBER: *UN1789*

ADR SHIPPING INFORMATION (European Union)

PROPER SHIPPING NAME: . . . . *Hydrochloric Acid Solution, Limited Quantity*
ADR CLASS: *8*
PACKAGING GROUP: . . . . . *III*
UN or ID NUMBER: *UN1789*
CLASSIFICATION CODE: *C1*
HAZARD IDENTIFICATION NO: . *80*

IMDG SHIPPING INFORMATION (International Ocean)

PROPER SHIPPING NAME: . . . . *Hydrochloric Acid Solution, Limited Quantity*
CLASS: *8*
PACKAGING GROUP: . . . . . *III*
SUBSIDIARY RISK(S): . . . . . *–*
UN or ID NUMBER: *UN1789*
PACKING INSTRUCTIONS: *P001, LP01*
EmS NO.: . . . . . *F-A, S-B*
STOWAGE: . . . . . *Category C*

MATERIAL SAFETY DATA SHEET

NORTH AMERICAN EMERGENCY RESPONSE GUIDE
ID NUMBER: 1789
GUIDE NUMBER: 157

NMFC DESCRIPTION (United States)
ITEM DESCRIPTION: . . . . . Cleaning Compounds, NOI
ITEM NUMBER: . . . . . 48580 Sub 3
CLASS: 55

SECTION 15 ● REGULATORY INFORMATION

UNITED STATES - FEDERAL:

INGREDIENT	CAS NUMBER	TSCA	RCRA	CERCLA	SARA 313	SARA 311/312 [F]	[R]	[I]	[D]	CAA	CWA
Water	7732-18-5	✓	—	—	—	—	—	—	—	—	—
Selenium Dioxide	7446-08-4	✓	U204	10#	–	–	–	✓	✓	–	10#
Cupric Sulfate	7758-98-7	✓	—	—	—	—	—	✓	✓	—	10# RQ
Hydrochloric Acid	7647-01-0	✓	–	5000#	2%	–	–	✓	✓	HAP	5000#

[F]=FIRE ● [R]=REACTIVITY ● [I]=IMMEDIATE (ACUTE) ● [D]=DELAYED (CHRONIC)

UNITED STATES - STATES:

INGREDIENT	CA	DE	FL	MA	PA	MN	NJ	NY	WA
Water	—	—	—	—	—	—	—	—	—
Selenium Dioxide	–	✓	–	2,4 F8 F9	E	–	–	✓	–
Cupric Sulfate	—	✓	—	F8 F9	E	—	—	✓	—
Hydrochloric Acid	–	✓	✓	2,4,5 *E* F6 F8 F9	E	AO	✓	✓	✓

CANADA:

INGREDIENT	WHMIS CATEGORIES A	B	D1A	D2A	D2B	E	CHEMICAL LISTS DSL	NDSL	NPRI	CWC
Water	—	—	—	—	—	—	✓	—	—	—
Selenium Dioxide	–	–	–	–	–	✓	✓	–	–	–
Cupric Sulfate	—	—	—	—	—	—	✓	—	—	—
Hydrochloric Acid	–	–	✓	–	–	✓	✓	–	1A	–

WHMIS Classification: *D1A, E*

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:

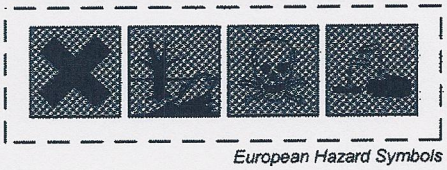
INGREDIENT	EINECS	SYMBOL	RISK PHRASES	SAFETY PHRASES
Water	231-791-2	—	—	—
Selenium Dioxide	231-194-7	T, N	23/25-33-50/53	1/2-20/21-28-45-60-61
Cupric Sulfate	231-847-6	Xn, N	22-36/38-50/53	2-22-60-61
Hydrochloric Acid	231-595-7	T, C	23-35	1/2-9-26-36/37/39-45

RoHS Compliance: *This product is RoHS compliant according to the definitions and restrictions given by The European Parliament (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.*

SECTION 16 ● OTHER INFORMATION

Canadian WHMIS Hazard Symbols

Canadian Consumer Hazard Symbols



European Hazard Symbols

RISK PHASES (European Union):

CODE	PHRASE
22	Harmful if swallowed
23/25	Toxic by inhalation and if swallowed
33	Danger of cumulative effects
35	Causes severe burns
36/38	Irritating to eyes and skin
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

MATERIAL SAFETY DATA SHEET

SAFETY PHASES (European Union):

CODE	PHRASE
1/2	Keep locked up and out of reach of children
9	Keep container in a well ventilated place
20/21	When using, do not eat, drink or smoke
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
28	After contact with skin, wash immediately with plenty of water
36/37/39	Wear suitable protective clothing, gloves & eye/face protection
45	In case of accident or if you feel unwell, seek medical advice immediately
60	This material and its container must be disposed of as hazardous waste
61	Avoid release to the environment

DISCLAIMER OF LIABILITY:

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REVISIONS:

Revision 1 - 06/29/2007 Original