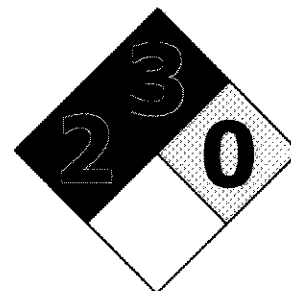


MATERIAL SAFETY DATA SHEET

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No. 9 Solvent
Part No. 904 Liquid
Revision 2 ♦ August 27, 2007

EMERGENCY OVERVIEW

CONTENTS FLAMMABLE. STORE BELOW 120°F, OUT OF SUNLIGHT, AND AWAY FROM HEAT SOURCES. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. SKIN AND EYE IRRITANT. HARMFUL OR FATAL IF SWALLOWED. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.



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: 1-800-423-3537
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: 904
PRODUCT DESCRIPTION: No. 9 Solvent

SUPPLIER NUMBER: 904

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

REVISION NUMBER: 2
REVISION DATE: August 6, 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
Kerosene	000008-20-6	N/E	100 mg/m3	200 mg/m3	N/E	30-40
Ethyl Alcohol	000064-17-5	1000 ppm	N/E	1000 ppm	N/E	30-40
Xylene	001330-20-7	100 ppm	100 ppm	100 ppm	900 ppm	< 10
Amyl Acetate	000628-63-7	100 ppm	100 ppm	50 ppm	1000 ppm	< 10
Ammonium Hydroxide	001336-21-6	35 ppm	N/E	25 ppm	N/E	< 10
Citronella	000106-23-0	N/E	N/E	N/E	N/E	< 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	<input checked="" type="checkbox"/>	Skin Absorption	<input checked="" type="checkbox"/>	Eye Contact	<input checked="" type="checkbox"/>	Inhalation	<input checked="" type="checkbox"/>	Ingestion	<input checked="" type="checkbox"/>
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EFFECTS OF ACUTE EXPOSURE

EYE: Liquid contact may cause pain along with moderate eye irritation.

SKIN: 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.

INGESTION: Should ingestion occur, it 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. May cause lung damage if swallowed.

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 dyspnoea are also possible.

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OTHER HEALTH HAZARD DATA

EFFECTS OF CHRONIC EXPOSURE: 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 deliberately concentrating and inhaling this product may be harmful or fatal.

MEDICAL CONDITIONS AGGRAVATED: May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

PRIMARY HAZARDS: Sensory Irritation

CARCINOGEN DATA: Ethyl Benzene (a component of Xylene) is listed with IARC as Class 2B (possible human carcinogen) and with ACGIH as A3 (confirmed animal carcinogen with unknown relevance to humans). Ethyl Benzene is also listed with the State of California as a carcinogen.

TARGET ORGANS: Eyes, skin, respiratory system, central nervous system, liver, blood

OSHA HAZARD CLASSIFICATIONS

HEALTH HAZARD CLASSIFICATION				PHYSICAL HAZARD CLASSIFICATION					
Irritant	<input checked="" type="checkbox"/>	Sensitizer	<input checked="" type="checkbox"/>	Combustible	<input type="checkbox"/>	Explosive	<input type="checkbox"/>	Pyrophoric	<input type="checkbox"/>
Toxic	<input 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 checked="" type="checkbox"/>	Compressed Gas	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>	Unstable	<input type="checkbox"/>

* See "Carcinogen Data" above

SECTION 4 ● FIRST AID MEASURES

INGESTION: Do not induce vomiting! Immediately have the victim drink plenty of water. Do not give milk or digestible oils. Keep airways free. Contact a physician. Never give anything by mouth if victim is rapidly losing consciousness, unconscious, or convulsing.

SKIN: Remove with soap and water. Consult a physician if irritation continues. 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, CO₂, dry chemical, or universal aqueous film forming foam.

UNSUITABLE EXTINGUISHING MEDIA: Not available

FLASH POINT AND METHOD OF DETERMINATION: 17 C (ASTM-D-93, PM Closed Cup)

FLAMMABLE LIMITS: Lower (LEL): 0.7% @ 25 C Upper (UEL): 19.0% @ 25 C

AUTOIGNITION TEMPERATURE: > 400

HAZARDOUS COMBUSTION PRODUCTS: Oxides of Carbon (CO, CO₂), smoke, and vapors as products of incomplete combustion.

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: Probably not sensitive. Stable compound.

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: Can accumulate static charge by flow or agitation. Vapor can be ignited by a static discharge.

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 flammable. NFPA Class I-B.

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: Warning – Flammable. Eliminate all ignition sources. For land spills shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.

For water spills confine the spill immediately with booms. Notify port and/or other relevant authorities. Remove from the surface by skimming or with suitable absorbents.

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.

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SECTION 7 ● HANDLING AND STORAGE

HANDLING: When using in spray application, conform to NFPA 33 Spray Applications using Flammable and Combustible Materials.
STORAGE: 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 and heat.
EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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: A NIOSH approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. If respirators are needed, compliance with OSHA standard 29 CFR 1910.134 is necessary within the United States.
SKIN AND HAND 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.
EYE 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.
OTHER PROTECTIVE EQUIPMENT: Safety showers and eye-wash stations should be available in the workplace.
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:	Not available	MELTING/FREEZING POINT:	Not available
SPECIFIC GRAVITY (H₂O=1):	0.850 g/cc	WEIGHT:	7.094 lbs/gal
VAPOR PRESSURE:	Not available	pH:	5
VAPOR DENSITY:	5.9	EVAPORATION RATE:	> 0.02
PHYSICAL STATE:	Liquid	WATER SOLUBILITY:	Not available
PERCENT VOLATILE:	78% Wt (81% Vol) Max	VOC CONTENT:	5.376 lbs/gal (644.168 g/L)
PERCENT VOC:	78% Wt (81% Vol) Max	HAP CONTENT:	0.737 lbs/gal (88.351 g/L)
VISCOSITY:	Not available	MIR VALUE:	1.163
ODOR THRESHOLD:	Approx 350 ppm	COEFF. OF WATER/OIL DIST.:	Not available
APPEARANCE:	Straw colored	ODOR:	Strong

SECTION 10 ● STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS OF INSTABILITY: Not available
HAZARD POLYMERIZATION: Not expected to occur
MATERIAL INCOMPATIBILITY: Strong oxidizing agents, ammonia, dichlorohydrantion, hydrogen peroxide, potassium tert-butoxide, bases, acids, perchloric and permonosulfuric acids, alkali metals, halogens, dimethyl sulfate
CONDITIONS OF REACTIVITY: Extreme heat and high energy sources of ignition
DECOMPOSITION PRODUCTS: Oxides of Carbon, acetic acid

SECTION 11 ● TOXICOLOGICAL INFORMATION

IRRITANCY OF PRODUCT: The following ingredients are eye irritants: ethyl alcohol. The following ingredients are skin irritants: coal oil, xylene, ammonium hydroxide, citronella
SENSITIZATION TO PRODUCT: The following ingredients are sensitizers: citronella
REPRODUCTIVE TOXICITY: Not available
TERATOGENICITY: The following ingredients are teratogens: xylene
MUTAGENICITY: The following ingredients are mutagens: ethyl alcohol

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SYNERGISTIC PRODUCTS: . . . *Not available*

LD50 AND LC50 SPECIES/ROUTE INFORMATION:

INGREDIENT	ORAL LD50	DERMAL LD50	INHALATION LC50
Kerosene	>5000 mg/kg, rat	>2000 mg/kg, rabbit	Not available
Ethyl Alcohol	6200 mg/kg, rat	>20000 mg/kg, rabbit	>8000 mg/l /4hr, rat
Xylene	2840 mg/kg, rat	4500 mg/kg, rabbit	6300 mg/l /4hr, rat
Amyl Acetate	6500 mg/kg, rat	Not available	Not available
Ammonium Hydroxide	350 mg/kg, rat	Not available	1.4 mg/l /4hr, rat
Citronella	2420 mg/kg, rat	> 2500 mg/kg, rabbit	Not available

SECTION 12 ● ECOLOGICAL INFORMATION

ECOTOXICITY:

INGREDIENT	FISH LC50	DAPHNIA EC50	ALGAL IC50	BACTERIAL EC50
Kerosene	Not available	Not available	Not available	Not available
Ethyl Alcohol	8140 mg/l /48 hr	>9000 mg/l /48 hr	Not available	Not available
Xylene	14 mg/l /96 hr	165 mg/l /24 hr	Not available	Not available
Amyl Acetate	65 mg/l /96 hr	Not available	Not available	Not available
Ammonium Hydroxide	0.53 mg/l /96 hr	1.16 mg/l /48 hr	Not available	2 mg/l /5 min
Citronella	22 mg/l /96 hr	8.7 mg/l /48 hr	7.5 mg/l /72 hr	Not available

MOBILITY: *Not available*

PERSISTENCE: *Not available*

DEGRADIBILITY: *Not available*

BIOACCUMULATION: *Not available*

OTHER ECOLOGIC DATA: *Do not allow to enter waters, waste water, or soil.*

EFFECT ON OZONE LAYER: . . . *This product does not contain any ozone depleting ingredients.*

SECTION 13 ● DISPOSAL CONSIDERATIONS

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.

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: *Flammable Liquid NOS (Contains Kerosene and Ethyl Alcohol), Limited Quantity*
HAZARD CLASS: *3*
PACKAGING GROUP: *II*
UN or ID NUMBER: *UN1993*

ADR SHIPPING INFORMATION (European Union)



PROPER SHIPPING NAME: *Flammable Liquid NOS (Contains Kerosene and Ethyl Alcohol), Limited Quantity*
ADR CLASS: *3*
PACKAGING GROUP: *II*
UN or ID NUMBER: *UN1993*
CLASSIFICATION CODE: *F1*

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HAZARD IDENTIFICATION NO: . 33

IMDG SHIPPING INFORMATION (International Ocean)

UN1993
 PROPER SHIPPING NAME: *Flammable Liquid NOS (Contains Kerosene and Ethyl Alcohol), Limited Quantity*
 CLASS: 3
 PACKAGING GROUP: II
 SUBSIDIARY RISK(S): -
 UN or ID NUMBER: UN1993
 PACKING INSTRUCTIONS: P001
 EmS NO.: F-E, S-E
 STOWAGE: Category B

NORTH AMERICAN EMERGENCY RESPONSE GUIDE

ID NUMBER: 1993
 GUIDE NUMBER: 128

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
Kerosene	8008-20-6	✓	-	-	-	✓	-	✓	✓	-	-
Ethyl Alcohol	64-17-5	✓	-	-	-	✓	-	✓	✓	-	-
Xylene	1330-20-7	✓	U239	100#	7%	✓	-	✓	✓	HAP	100#
Amyl Acetate	628-63-7	✓	-	5000#	-	-	-	-	-	-	5000#
Ammonium Hydroxide	1336-21-6	✓	-	1000#	-	-	-	✓	✓	-	-
Citronella	106-23-0	✓	-	-	-	-	-	-	-	-	-

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

UNITED STATES - STATES:

INGREDIENT	CA	DE	FL	MA	PA	MN	NJ	NY	WA
Kerosene	-	-	✓	5	-	-	-	-	-
Ethyl Alcohol	-	-	✓	2,4,5,6 *T1*	-	AO	-	-	✓
Xylene	C*	✓	✓	2,4 F8 F9	E	ANO	✓	✓	✓
Amyl Acetate	-	✓	✓	2,4,5,6 F8	E	AO	-	✓	✓
Ammonium Hydroxide	-	✓	-	F8	E	-	✓	✓	✓
Citronella	-	-	-	-	-	-	-	-	-

CANADA:

INGREDIENT	WHMIS CATEGORIES						CHEMICAL LISTS			
	A	B	D1B	D2A	D2B	E	DSL	NDSL	NPRI	CWC
Kerosene	-	3	-	-	✓	-	✓	-	-	-
Ethyl Alcohol	-	2	-	-	✓	-	✓	-	5	-
Xylene	-	2	-	✓	✓	-	✓	-	1A,5	-
Amyl Acetate	-	2	-	-	-	-	✓	-	-	-
Ammonium Hydroxide	-	-	-	-	-	✓	✓	-	-	-
Citronella	-	3	-	-	-	-	✓	-	1A	-

WHMIS Classification: B2, D2A, D2B

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
Kerosene	232-366-4	Xn	65	23-24-62
Ethyl Alcohol	200-578-6	F	11	1/2-7-16
Xylene	215-535-7	-	10	2-25
Amyl Acetate	211-047-3	-	10-66	2-23-25
Ammonium Hydroxide	215-647-6	-	-	1/2-26-36/37/39-45-61
Citronella	202-849-4	F, Xn	11-20	2-24/25-29

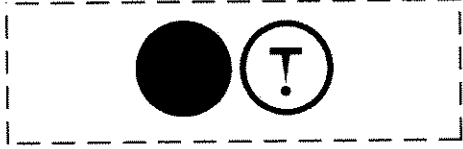
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RoHS Compliance: This product is RoHS compliant according to the definitions and restrictions given by The European Parliament (Directive 2002/95/EC) and The Council of January 27, 2003 on the restriction of the use of certain hazardous substances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

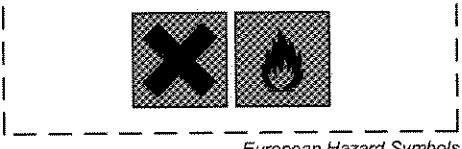
SECTION 16 • OTHER INFORMATION



Canadian WHMIS Hazard Symbols



Canadian Consumer Hazard Symbols



European Hazard Symbols

RISK PHASES (European Union):

CODE	PHRASE
11	Highly flammable
20	Harmful by inhalation
65	Harmful; may cause lung damage if swallowed
66	Repeated exposure may cause skin dryness or cracking

SAFETY PHASES (European Union):

CODE	PHRASE
1/2	Keep locked up and out of reach of children
7	Keep container tightly closed
16	Keep away from sources of ignition - No smoking
23	Do not breathe vapour
24/25	Avoid contact with the skin and eyes
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
29	Do not empty into drains
36/37/38	Wear suitable protective clothing, gloves & eye/face protection
45	In case of accident or if you feel unwell, seek medical advice immediately
61	Avoid release to the environment
62	If swallowed do not induce vomiting; seek medical advice immediately

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 purpose.

REVISIONS:

Revision 1	- 06/29/2007	Original
Revision 2	- 08/06/2007	Updated Flash Point with test results