

SAFETY DATA SHEET

24-hr Emergency Phone Number

800-255-3924 (Chem-Tel)

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Number(s) 902, 902CN, 902RH, 904, 904CN, 904B, 904P, 916, 916CN, 932, 9501
 Product Name No. 9 Gun Bore Cleaner
 Synonyms None
 Products Uses Removes leading and metal fouling from gun bores

Revision No. 4
 Revision Date June 24, 2012
 Print Date June 24, 2012

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 KC 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! EXTREMELY 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. HARMFUL OR FATAL IF SWALLOWED. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

USA OSHA Classification This product is a "hazardous chemical" as defined by 29 CFR 1910.1200.
 European CLP Classification DANGER! FLAM. LIQ. 2, SKIN CORR. 1B, ASP. TOX. 1, AQUATIC ACUTE 1
 Canadian WHMIS Classification B2, D2B, 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.
 HMIS III Classification Health: *2 Flammability: 3 Physical Hazard: 0
 NFPA Classification Health: 2 Flammability: 3 Reactivity: 0 Special Hazard: None

HEALTH HAZARDS		PHYSICAL HAZARDS			
Irritant	<input type="checkbox"/>	Sensitizer	<input type="checkbox"/>	Flammable	<input checked="" type="checkbox"/>
Acute Toxicity	<input type="checkbox"/>	Mutagenic	<input checked="" type="checkbox"/>	Explosive	<input type="checkbox"/>
Corrosive to Skin	<input checked="" type="checkbox"/>	Carcinogenic	<input type="checkbox"/>	Oxidizer	<input type="checkbox"/>
Target Organ SE	<input type="checkbox"/>	Reproductive	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>
Target Organ RE	<input type="checkbox"/>	Aspiration	<input checked="" type="checkbox"/>	Unstable	<input type="checkbox"/>
ENVIRONMENTAL HAZARDS					
		Aquatic	<input checked="" type="checkbox"/>	Ozone Depleting	<input type="checkbox"/>

UNITED STATES CPSC	USA / INTERNATIONAL GHS	CANADA WHMIS	CANADA CCCR
DANGER CONTENTS EXTREMELY FLAMMABLE			

POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Skin Contact 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.
Eye Contact Liquid contact may cause pain along with moderate eye irritation.
Ingestion 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.

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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>
Target Organs	<i>Eyes, Skin, Respiratory System, Central Nervous System, Liver, Blood</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	Ethanol	0000064-17-5	200-578-6	H255	15 - 40
2	Kerosine (Petroleum)	0008008-20-6	232-366-4	H304	15 - 40
3	Oleic Acid	0000112-80-1	204-007-1		15 - 40
4	Amyl Acetate	0000628-63-7	211-047-3	H226	5 - 10
5	Ammonium Hydroxide	0001336-21-6	215-647-6	H314, H400	1 - 5

Hazard Statements	<i>See Section 15 for Hazard and Precautionary Statement 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>> 55.0 °F (12.8 °C)</i>
Explosive Limits	<i>0.70% to 19.00%</i>
Autoignition Temperature	<i>410.0 °F (210.0 °C)</i>
Conditions of Flammability	<i>Heat, sparks, flame, red hot metal</i>
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>Contents extremely flammable</i>
Autoreactivity/Oxidizing Properties	<i>Not available</i>

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protection recommended in Section 8. Isolate hazard area and deny entry to unnecessary and unprotected personnel.
Environmental Precautions	Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
Containment Procedures	Released content may be contained with oil/solvent absorbent pads, booms, and/or other absorbents.
Cleanup Procedures	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.
Other Information	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.
Prohibited Materials	Combustible absorbent material such as sawdust, use of equipment that may cause sparking.
Reporting Requirements	Report releases that reach surface water or groundwater in any amount. Reportable quantities for spills onto the ground depend on site conditions, such as the type of soil and type of material spilled. Federal and local agencies often have different reportable quantities.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling and Use	KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Always replace overcap when not in use. Do not smoke while handling or using this product. Avoid use around open flames or other sources of ignition. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation. Wash hands after use.
Storage Requirements and Conditions	Storage of individual cans should be done in an area below 120 °F (55 °C), 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 30 (Flammable and Combustible Liquids) is recommended and may be required by local and/or state law.
Special Packaging Materials	Not applicable.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

ID	USA OSHA PEL	USA NIOSH REL	USA NIOSH IDLH	USA ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL	ALBERTA CN OEL	BC CN TWA	ONTARIO CN TWAEV	QUEBEC CN TWA	MEXICO MPPEL-PTA	UK WEL
1	N/E	3300 ppm	1000 ppm	1000 ppm	1000 ppm	500 ppm	N/E	1000 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm
2	N/E	N/E	100 mg/m3	200 mg/m3	N/E	N/E	N/E	N/E	200 mg/m3	200 mg/m3	N/E	N/E	N/E
3	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E
4	100 ppm	1000 ppm	100 ppm	N/E	50 ppm	50 ppm	100 ppm	100 ppm	50 ppm	50 ppm	50 ppm	100 ppm	N/E
5	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E

Biological Exposure Indices

ID	DETERMINANT	SAMPLING TIME	BEI	NOTATION
1	Not Available			

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.
General Hygiene Considerations	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.
Thermal Hazards	This product does not present a thermal hazard.
Respiratory Protection	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.
Skin 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/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.
Other Protective Equipment	Safety showers and eye-wash stations should be available in the workplace near where the material will be used.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	> 116.6 °F (47.0 °C)	Melting / Freezing Point	> -173.5 °F (-114.2 °C)
Flash Point	> 55.0 °F (12.8 °C)		
Explosive Limits	0.70% to 19.00%	Autoignition Temperature	410.0 °F (210.0 °C)
Flammability	Class IB Liquid	Density (H2O = 1)	0.844 g/cc
Molecular Weight	Not Available	Weight	7.031 lbs/gal
Vapor Pressure	Not Available	pH	Not Available
Vapor Density	9.70 g/cc Maximum	Evaporation Rate	Not Available
Physical State	Liquid	Partition Coefficient	Not Available
Viscosity	4.2-4.8 Centipoise (mpa.s)	Refractive Index	Not Available
Odor	Distinct	Heat of Combustion	Not Available
Appearance / Color	Clear light to dark amber	Water Solubility	Not Available
Percent Volatile	74% Wt (76% Vol) Max	VOC Content	4.971 lbs/gal (595.651 g/L)
Percent VOC	74% Wt (76% Vol) Max	HAP Content	None
Solids/Non Volatile Content	27% Wt (25% Vol) Max	Maximum Incremental Reactivity	1.206 g O3/g

SECTION 10 - STABILITY AND REACTIVITY

Stability	Stable	Conditions to Avoid	Not Available
Physical Hazards	Flammable	Hazard Polymerization	Not expected to occur
Decomposition Products	Oxides of carbon		
Conditions of Reactivity	Heat, sparks, flame, red hot metal		
Material Incompatibility	Strong Oxidizing Agents, Hydrogen Peroxide, Perchloric And Permonosulfuric Acids, Ammonia, Alkali Metals, Potassium Tert-Butoxide, Acids, Bases, Halogens, Dimethyl Sulfate		

SECTION 11 - TOXICOLOGICAL INFORMATION

Irritancy of Product	None of the ingredients are known or suspected irritants.
Sensitization to Product	None of the ingredients are known or suspected sensitizers.
Carcinogen Data	None of the ingredients are known or suspected carcinogens.
Reproductive Toxicity	The following ingredients are considered reproductive toxicants: Ethanol
Teratogenicity	The following ingredients are considered teratogens: Ethanol
Mutagenicity	The following ingredients are considered mutagens: Ethanol
Synergistic Products	Not Available

LD50 and LC50 Information

ID	ORAL LD50		DERMAL LD50		INHALATION LC50		
	VALUE	SPECIES	VALUE	SPECIES	VALUE	TIME	SPECIES
1	7060 mg/kg	rat	>15800 mg/kg	rabbit	>32380 ppm	4 hr	rat
2	> 5000 mg/kg	rat	>2000 mg/kg	rabbit	> 5.28 mg/L	4 hr	rat
3	25000 mg/kg	rat					
4	6500 mg/kg	rat					
5	350 mg/kg	rat			1.4 mg/L	4 hr	rat

SECTION 12 - ECOLOGICAL INFORMATION

Mobility	Not Available	Degradability	Not Available
Persistence	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 life.		
Effects on the Ozone Layer	This product does not contain any ozone depleting ingredients.		

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Ecotoxicity

ID	TYPE	FISH VALUE	PERIOD	TYPE	INVERTEBRATES VALUE	PERIOD	TYPE	AQUATIC PLANTS VALUE	PERIOD	TYPE	MICROORGANISMS VALUE	PERIOD
1	LC50	11000 mg/L	96 hr	EC50	10800 mg/L	24 hr	NOEC	5000 mg/L	7 day	NOEC	5600 mg/L	16 hr
3	LC50	208 mg/L	96 hr									
4	LC50	65 mg/L	96 hr									

SECTION 13 - DISPOSAL CONSIDERATIONS

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

Consult with your local landfill to determine if empty small containers can be disposed of in regular trash pickup. For disposal of large containers, or for containers not suitable for landfill, a licensed reconditioner should be used.

Landfill Precautions

Not Available

Incineration Precautions

Not Available

SECTION 14 - TRANSPORTATION INFORMATION

THE FOLLOWING CLASSIFICATIONS APPLY TO PRODUCT CODES: 902, 902Z, 904, 904B, 904P, 916

DOT SHIPPING INFORMATION (United States)	Current	DOT SHIPPING INFORMATION (United States)	As of 01/01/2014
Proper Shipping Name	ORM-D	Proper Shipping Name	Flammable Liquid NOS, Limited Quantity
Hazard Class or Division	—	Hazard Class or Division	3
Identification Number	—	Identification Number	UN1993
Packing Group	—	Packing Group	—
Hazard Labels	ORM-D Mark	Hazard Labels	Limited Quantity Mark
NAERG Number	171	NAERG Number	171



IMDG SHIPPING INFORMATION (International Ocean)	ICAO/IATA SHIPPING INFORMATION (International Air)
UN Number	UN1993
Proper Shipping Name	Flammable Liquid NOS (Ethanol/Kerosene Mixture), Limited Quantity
Class or Division	3
Subsidiary Risk(s)	—
Packing Group	II
Packing Instructions	P001
EmS Number	F-E, S-E
Stowage Category	B
MFAG Number	310-313
Hazard Labels	Limited Quantity Mark



ADR SHIPPING INFORMATION (European Union)	TDG SHIPPING INFORMATION (Canada)
UN Number	UN1993
Proper Shipping Name	Flammable Liquid NOS (Ethanol/Kerosene Mixture), Limited Quantity
Class	3
Classification Code	F1
Hazard Labels	Limited Quantity Mark
Hazard Code	33



THE FOLLOWING CLASSIFICATIONS APPLY TO PRODUCT CODES: 902, 902Z, 904, 904B, 904P, 916

DOT SHIPPING INFORMATION (United States)	ICAO/IATA SHIPPING INFORMATION (International Air)
Proper Shipping Name	Flammable Liquid NOS (Ethanol/Kerosene Mixture)
Hazard Class or Division	3
Identification Number	UN1993
Packing Group	II
Hazard Labels	Flammable Liquid
NAERG Number	128



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IMDG SHIPPING INFORMATION (International Ocean)

UN Number	UN1993
Proper Shipping Name	Flammable Liquid NOS (Ethanol/Kerosene Mixture)
Class or Division	3
Subsidiary Risk(s)	—
Packing Group	II
Packing Instructions	P001
EmS Number	F-E, S-E
Stowage Category	B
MFAG Number	310, 313
Hazard Labels	Flammable Liquid



TDG SHIPPING INFORMATION (Canada)

Proper Shipping Name	Flammable Liquid NOS (Ethanol/Kerosene Mixture)
UN Number	UN1993
Class	3
Packing Group	II
Hazard Labels	Flammable Liquid
ERG Number	128



ADR SHIPPING INFORMATION (European Union)

UN Number	UN1993
Proper Shipping Name	Flammable Liquid NOS (Ethanol/Kerosene Mixture)
Class	3
Classification Code	F1
Hazard Labels	Flammable Liquid
Hazard Code	33



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 HAP	SOCMI	CLEAN WATER ACT
1	✓					Yes			Yes				
2	✓												
3	✓												
4	✓				5000	Yes			Yes				5000
5	✓				1000	3%			Yes				1000

UNITED STATES - STATES

ID	CA PROP 65	DE DRQ	MA RTK CODES	ME TYPE	ME RQ	MN HAZ CODE	NJ RTK	NY AIR RQ	NY LAND RQ	NY ACUTE	PA HAZ CODE	WA PEL TWA
1			2,4,5,6 *T1*			AO					Yes	1000ppm
2			5								Yes	
3											Yes	
4		5000	2,4,5,6 F8			AO		5000	1		Yes-E	100ppm
5		1000	F8					1000	100		Yes-E	

CANADA

ID	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	NDL	NPRI	CWC
1		B2					✓			✓		5	
2		B3					✓			✓			
3										✓			
4		B2								✓			
5									✓	✓			

EUROPEAN UNION

CODE	HAZARD STATEMENTS
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life

CODE	PRECAUTIONARY STATEMENTS
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
P306+P360	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P334	Immerse in cool water/wrap in wet bandages.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342	If experiencing respiratory symptoms: Remove to fresh air and get medical advice/attention.
P352	Wash with plenty of soap and water.

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CODE	PRECAUTIONARY STATEMENTS
P353	Rinse skin with water/shower.
P370+P378	In case of fire: Use dry chemical extinguishers for extinction.
P381	Eliminate all ignition sources if safe to do so.
P404	Store in a closed container.

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, 01/28/2010, Original
Revision 2, 01/28/2011, Updated toxicity values based on supplier MSDS
Revision 3, 08/24/2011, Updated product numbers in Section 1
Revision 4, 06/24/2012, Total revision with new shipping, GHS, and CLP information