

**BENCHREST 9** 

Revision 1 . October 6, 2009

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## SECTION 1 ● PRODUCT AND COMPANY IDENTIFICATION

Product Numbers BR902, BR902Z, BR904, ÓÜJ€I ÔÞÆBR904B, BR916, BR932

Product Name Hoppe's Benchrest 9

Synonyms None

Products Uses Copper Solvent

Revision Number

Revision Date October 6, 2009
Print Date October 6, 2009

24 hr Emergency Phone Number

800-255-3924

(CHEM-TEL)

MANUF	ACTURER INFORMATION	DISTR	RIBUTOR INFORMATION
Company Name	Tri-Pac Inc.	Company Name	Bushnell
Address	17336 M-60 East	Address	9200 Cody
	Vandalia, MI 49095		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!** CONTENTS **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. SKIN SENSITIZER. EYE AND SKIN IRRITANT. HARMFUL OR FATAL IF SWALLOWED. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

OSHA Classification This product is a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29

CFR 1910.1200.

European Classification F, Xn, Xi

R 11-43-52/53-65-66

S 2-7-16-23-24/25-26-36/37/39-45-61-62

WHMIS Classification B2, D2B, E





	HEALTH I	HAZARDS		PHYSICAL HAZARDS						
Irritant	1	Sensitizer	1	Combustible	Explosive	Pyrophoric				
Toxic		Highly Toxic		Flammable /	Oxidizer	Water Reactive				
Corrosive		Carcinogenic		Compressed Gas	Organic Peroxide	Unstable				

LABELING REQUIREMENTS									
CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS						
<b>6</b> €	DANGER CONTENTS EXTREMELY FLAMMABLE EYE AND SKIN IRRITANT	<b>*</b>	♦ ♦						



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#### POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

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

Skin Contact Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying flaking

of skin. May cause more severe response if confined to skin.

May cause irritation to membranes of the mouth, throat, and gastrointestinal tract resulting in vomiting Ingestion

and/or cramps. Aspiration of vom it into the lungs may cause inflammation, and possible chemical

pneumonitis, bronchopneumonia, or pulmonary edema.

Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute Inhalation

nervous system depression characterized by headache, dizziness, staggering gait, confusion or death.

Irritation of the mucous membranes, coughing, and dyspnea are also possible.

Effects of Chronic Exposure Reports have associated repeated and polonged occupational overexposure to solvents with irreversible

brain and ner vous system damage (sometimes referr ed to as "Solvent or Painter" s Syndrome").

Intentional misuse by 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.

Types of Hazards Sensory Irritation

**Target Organs** Eyes, Skin, Respiratory System, Central Nervous System, Liver, Blood

Routes of Exposure Skin contact, skin absorption, eye contact, inhalation

Potential Environmental Effects See Section 12 for environmental effects

## SECTION 3 ● COMPOSITION / INFORMATION ON INGREDIENTS

ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	% WT
1	Kerosene	008008-20-6	232-366-4	Xn; 65	15 - 40
2	Ethyl Alcohol	000064-17-5	200-578-6	F; 11	15 - 40
3	Oleic Acid	000112-80-1	204-007-1	_	_
4	Amyl Acetate	000628-63-7	211-047-3	10-65	5 - 10
5	Water	007732-18-5	231-791-2	-	_
6	Ammonium Hydroxide	001336-21-6	215-647-6	N, C; 34-50	3 - 7
7	Tetraethylenepentamine	000112-57-2	203-986-2	Xn, N, C; 21/22-34-43-51/53	1 - 5

Risk Phrases See Section 15 for risk phrase text

LD50 and LC50 Information See Section 11 for toxicological information

Occupational Exposure Limits See Section 8 for OELs

## **SECTION 4 ● FIRST AID MEASURES**

Ingestion DO NOT INDUCE VOMITING! ASPIRATION HAZARD. This material may enter the lungs dur ing

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.

Skin Contact Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any

resulting dryness. Consult a physician if irritati on continues. If large skin area is affected, remove

contaminated clothing.

**Eye Contact** Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult adoctor. Inhalation

Remove to fresh air. If nobreathing, give artificial respiration. If breathing is difficult, give oxygen. Seek

medical attention if symptoms persist or if unconscious.

Notes to Physician Treat symptomatically. **Antidotes** No specific antidote.



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## SECTION 5 ● FIRE FIGHTING MEASURES

Flash Point  $> 55 \,^{\circ}F \, (12.8 \,^{\circ}C)$ Autoignition Temperature  $410 \,^{\circ}F \, (210.0 \,^{\circ}C)$ Explosive Limits  $0.70\% \, to \, 19.00\%$ 

Conditions of Flammability Heat, sparks, flame, red hot metal

Extinguishing Media Water, CO2, dry chemical, or universal aqueous film forming foam

Unsuitable Extinguishing Media Water jet

Hazardous Combustion Products Oxides of carbon (CO, CO2), smoke, and vapors
Sensitivity to Mechanical Impact Probably not sensitive as material is stable.

Sensitivity to Static Discharge Vapor within the flammable limits may be ignited by a static discharge of sufficient energy.

pressure. Firemen should wear self-contained breathing apparatus.

Special Explosion Hazards FLAMMABLE LIQUID. Vapors can form an explosive mixture w ith air and can travel to a source of

ignition (spark or flame) and flash back.

Autoreactivity / Oxidizing Properties Not available

### SECTION 6 ● ACCIDENTAL RELEASE MEASURES

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

Containment Procedures Released content may be contained with oil/solvent absorbent pads, booms, and/or 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.

Consult the North American Emergency Response Guilebook or similar resources providingemergency

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 surfaœ 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

a regulated underground storage tank should also be reported. Repotable 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.

### SECTION 7 ● HANDLING AND STORAGE

Precautions for Safe Handling / Use KEEP OUT OF THE REACH OF CHILDREN.

Storage Requirements / Conditions 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.

Special Packaging Materials Not applicable.

## SECTION 8 ● EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Other Information

ID	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	UNITED STATES ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL
1	None Established	100 mg/m3	None Established	200 mg/m3	None Established	None Established	None Established
2	1000 ppm	None Established	None Established	1000 ppm	1000 ppm	500 ppm	None Established
3	None Established	None Established	None Established	None Established	None Established	None Established	None Established
4	100 ppm	100 ppm	1000 ppm	50 ppm	50 ppm	50 ppm	100 ppm
5	None Established	None Established	None Established	None Established	None Established	None Established	None Established
6	None Established	None Established	None Established	None Established	None Established	None Established	None Established
7	None Established	None Established	None Established	None Established	None Established	None Established	None Established



Percent VOC

Solids Content

## MATERIAL SAFETY DATA SHEET

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ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWAEV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	None Established	200 mg/m3	200 mg/m3	None Established	None Established	None Established	None Established
2	1000 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm	None Established
3	None Established	None Established	None Established	None Established	None Established	None Established	None Established
4	100 ppm	50 ppm	50 ppm	100 ppm	100 ppm	None Established	None Established
5	None Established	None Established	None Established	None Established	None Established	None Established	None Established
6	None Established	None Established	None Established	None Established	None Established	None Established	None Established
7	None Established	None Established	None Established	None Established	None Established	None Established	None Established

Engineering Measures 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.

Biological Exposure Indices None Established

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.

#### PERSONAL PROTECTIVE EQUIPMENT





Respiratory Protection An approved respirator with an organic vapor cartidge may be permissible undercertain 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 cl ean 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 chemical handling.

Other Protective Equipment Safety showers and eye-wash stations should be available in the near where the material will be used.

**HAP Content** 

**Maximum Incremental Reactivity** 

None

1.023 g O<sub>3</sub>/g

## SECTION 9 ● PHYSICAL AND CHEMICAL PROPERTIES

64% Wt (67% Vol) Max

None

Boiling Point	> 177 °F (47.0 °C)	Melting / Freezing Point	> -173 °F (-114.2 °C)
Flash Point	> 55 °F (12.8 °C)	Autoignition Temperature, Liquid	410 °F (210.0 °C)
Explosive Limits	0.70% to 19.00%	<b>Decomposition Temperature</b>	Not Available
Flammability	Class IB Flammable Liquid	Density (H <sub>2</sub> O = 1)	0.852 g/cc
Molecular Weight	Not Available	Weight	7.100 lbs/gal
Vapor Pressure	Not Available	pH	Not Available
Vapor Density	9.70 g/cc Maximum	Evaporation Rate (BuAC = 1)	Not Available
Physical State	Liquid	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion	Not Available
Odor	Distinct	Water Solubility	Not Available
Appearance / Color	Clear light to dark amber		
Percent Volatile	72% Wt (74% Vol) Max	VOC Content	4.459 lbs/gal (534.248 g/L)



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## **SECTION 10 ● STABILITY AND REACTIVITY**

Stability Stable

Physical Hazards Flammable

Conditions to Avoid Not Available

Hazard Polymerization Not expected to occur

Material Incompatibility Strong oxidizing agents, ammonia, hydrogen peroxide, strong reducing agents, polassium tert-butoxide,

bases, acids, perchloric and permonosulfuric acids, alkali metals, halogens, dimethyl sulfate

Conditions of Reactivity Heat, sparks, flame, red hot metal

Decomposition Products Oxides of carbon and/or nitrogen, hydrogen cyanide, nitriles, isocyanates, nitrosamines

## **SECTION 11 ● TOXICOLOGICAL INFORMATION**

Irritancy of Product The following ingredients are eye irritants: Ethyl Alcohol, Tetraethylenepentamine. The following

ingredients are skin irritants: Coal Oil, Ammonium Hydroxide, Tetraethylenepentamine.

Sensitization to Product The following ingredients are considered sensitizers: Tetraethylenepentamine.

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

None of the ingredients are considered known or suspected teratogens.

Mutagenicity

The following ingredients are considered mutagens: Ethyl Alcohol

Synergistic Products No known synergistic properties.

LD<sub>50</sub> and LC<sub>50</sub> Information

	ED 30 GHZ ED 30 HITOTHICKOT											
ID	ORAL LD50	DERMAL LD50	INHALATION LC50									
1	> 5000 mg/kg, rat	> 2000 mg/kg, rabbit	> 5.28 mg/L /4hr, rat									
2	6200 mg/kg, rat	> 20000 mg/kg, rabbit	> 8000 mg/L /4hr, rat									
3	58000 mg/kg, rat	Not Available	Not Available									
4	6500 mg/kg, rat	Not Available	Not Available									
5	> 89000 mg/kg, rat	Not Available	Not Available									
6	350 mg/kg, rat	Not Available	1.4 mg/L /4hr, rat									
7	3990 mg/kg. rat	660 mg/kg. rabbit	Not Available									

## SECTION 12 ● ECOLOGICAL INFORMATION

MobilityNot AvailablePersistanceNot AvailableDegradibilityNot AvailableBioaccumulationNot Available

Other Ecologic Data Do not allow to enter waters, waste water, or soil. Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Effects on the Ozone Layer This product does not contain any ozone depleting ingredients.

**Ecotoxicity** 

	···· · · · · · · · · · · · · · · · · ·											
ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS								
1	Not Available	Not Available	Not Available	Not Available								
2	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: 205 mg/L /96 hr	Not Available	Not Available	Not Available								
4	LC50: 65 mg/L /96 hr	Not Available	Not Available	Not Available								
5	Not Available	Not Available	Not Available	Not Available								
6	Not Available	Not Available	Not Available	Not Available								
7	LC50: 420 mg/L /96 hr	EC50: 24.1 mg/L /48 hr	EC50: 2.1 mg/L /72 hr	EC50: 1600 mg/L /1 hr								



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## 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 reconditioner should be used.

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

## SECTION 14 ● TRANSPORTATION INFORMATION

#### **DOT SHIPPING INFORMATION (United States)**

ORM-D

PROPER SHIPPING NAME: . . . Consumer Commodity

HAZARD CLASS: ..... ORM-D PACKING GROUP: ..... –

UN or ID NUMBER: NAERG GUIDE NUMBER: .... 171

#### ICAO/IATA SHIPPING INFORMATION (International Air)

LIMITED QUANTITY PROPER SHIPPING NAME: .. Flammable Liquid NOS (Kerosene, Ethanol, Amyl Acetate Mixture), Limited Quantity

HAZARD CLASS: ..... 3 PACKAGING GROUP: ..... // **UN or ID NUMBER: ..... UN 1993** 

#### IMDG SHIPPING INFORMATION (International Ocean)



PROPER SHIPPING NAME: ... Flammable Liquid NOS (Kerosene, Ethanol, Amyl Acetate Mixture), Limited Quantity

CLASS: . . . . . . . . . . . . 3 PACKAGING GROUP: ..... // SUBSIDIARY RISK(S): ....

PACKING INSTRUCTIONS: ... P001 STOWAGE: ..... Category B 

### ADR SHIPPING INFORMATION (European Union)



**PROPER SHIPPING NAME: ...** Flammable Liquid NOS (Kerosene, Ethanol, Amyl Acetate Mixture), Limited Quantity ADR CLASS: ... . . . . . . . . . . 3

PACKAGING GROUP: ..... **CLASSIFICATION CODE: ..... F1 HAZARD IDENTIFICATION NO: 33** 

EMERGENCY ACTION CODE: 03YF

#### **TDG SHIPPING INFORMATION (Canada)**



PROPER SHIPPING NAME: ... Flammable Liquid NOS (Kerosene, Ethanol, Amyl Acetate Mixture), Limited Quantity

PACKAGING GROUP: ..... // 

## 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

Office	Title States Teachar												
	TSCA	SARA 302						SARA 311/312			CLEAN	CLEAN	
ID	INVENTORY	EHS	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	ACUTE	CHRONIC	PRESSURE	AIR ACT	WATER ACT	
1	/		_	_	_	/	_	/	/		_	_	
2	/		_	_		/	_	/	/		_		
3	/	_	_	_	_	_	_	_	_	_	_	_	
4	/		_	5000#		_	_	_	_		_	5000#	
5	/	_	_	_	_	_	_	_	_	_	_	_	
6	/		_	1000#		_	_	/	/		_		
7	/	_	_	_	_	_	_	_	_	_	_	_	



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#### **United States - States**

ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	_	_	/	5		_	_	_	_
2		_	/	2,4,5,6 *T1*		AO	_	_	/
3	_	_	_	_	_	_	_	_	_
4		/	/	2,4,5,6 F8	Ε	AO	_	/	/
5	_	_	_	_	_	_	_	_	_
6		/	_	F8	E	_	/	/	_
7		_	/	6		_		_	

#### Canada

				WH	MIS CATEGOR	RIES					CHEMIC	AL LISTS	
ID	A	В	С	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	B3	_	_	_	_	/	_	_	_	/	_	_	_
2	B2	_	_	_	<u>—</u>	/	_	_	_	/	_	5	_
3	_	_	_	_	_	_	_	_	_	/	_	_	_
4	B2	_	_	_		_	_	_	_	/	_	_	_
5	_	_	_	_	_	_	_	_	_	/	_	_	_
6	_	_	_	_		_	_	_	/	/	_	_	_
7	_	_	_	_	_	/	_	_	/	/	_	_	_

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** 

Edi Opcali Officia	
CODE	RISK PHRASES
R 11	Highly Flammable
R 43	May cause sensitization by skin contact
R 50/52	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed
R 66	Repeated exposure may cause skin dryness or cracking

CODE	SAFETY PHRASES
S 2	Keep out of the reach of children
S 7	Keep container tightly closed
S 23	Do not breath fumes
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 36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S 45	In case of accident or you feel unwell, seek medical advice immediately
S 61	Avoid release to the environment
S 62	If swallowed do not induce vomiting; seek medical advise immediately

**RoHS Compliance** 



This product is RoHS com pliant 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.

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 lited 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 pro vided 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 uponthe condition that the pesons 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, 10/06/2009, Original

MSDS Prepared By Hazard Communication Associates, http://www.hazcom411.com