



MATERIAL SAFETY DATA SHEET

MDL
Revision 1 ❖ January 27, 2010

Page 1 of 7

SECTION 1 • PRODUCT AND COMPANY IDENTIFICATION

Product Numbers *BR1003, BR1003Z, BR1003B*
 Product Name *Moisture Displacing Liquid*
 Synonyms *None*
 Products Uses *Displaces moisture*
 Revision Number *1*
 Revision Date *January 27, 2010*
 Print Date *January 27, 2010*

**24 hr Emergency
Phone Number**

800-255-3924
(CHEM-TEL)

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

SECTION 2 • HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	CAUTION! AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. EYE AND SKIN IRRITANT. 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 *Xi, Xn, N
R 20/21/22-36/37/38-51/53-65
S 2-23-24-26-36/37-45-46-53-61-62*

WHMIS Classification *D2A, D2B*

HEALTH	* 1
FLAMMABILITY	1
PHYSICAL HAZARD	0



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 type="checkbox"/>	Highly Toxic <input type="checkbox"/>	Flammable <input 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
	CAUTION EYE AND SKIN IRRITANT		



MATERIAL SAFETY DATA SHEET

MDL
Revision 1 ❖ January 27, 2010

Page 2 of 7

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>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>Not Available</i>
Target Organs	<i>Eyes, Skin, Respiratory System, Central Nervous System, Liver, Kidneys, 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	<i>Hydrotreated Naphthenic Distillate</i>	<i>064742-52-5</i>	<i>265-155-0</i>	—	<i>30 - 60</i>
2	<i>Mineral Spirits</i>	<i>064742-88-7</i>	<i>265-191-7</i>	<i>Xn; 65</i>	<i>10 - 30</i>
3	<i>Light Aromatic Petroleum Solvent</i>	<i>064742-95-6</i>	<i>265-199-0</i>	<i>65</i>	<i>10 - 30</i>
4	<i>1,2,4-Trimethylbenzene</i>	<i>000095-63-6</i>	<i>202-436-9</i>	<i>Xn, Xi, N; 10-20-36/37/38-51/53</i>	<i>7 - 13</i>
5	<i>Isopropyl Benzene</i>	<i>000098-82-8</i>	<i>202-704-5</i>	<i>Xn, N; 10-37-51/53-65</i>	<i>0.5 - 1.5</i>
6	<i>Butyl Cellosolve</i>	<i>000111-76-2</i>	<i>203-905-0</i>	<i>Xn, Xi; 20/21/22-36/38</i>	<i>0.5 - 1.5</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>



MATERIAL SAFETY DATA SHEET

MDL
Revision 1 ❖ January 27, 2010

Page 3 of 7

SECTION 5 • FIRE FIGHTING MEASURES

Flash Point	304 °F
Autoignition Temperature	Not Determined
Explosive Limits	Not Determined
Conditions of Flammability	Heat, sparks, flame, red hot metal
Extinguishing Media	Water, CO ₂ , dry chemical, or universal aqueous film forming foam
Unsuitable Extinguishing Media	Water jet
Hazardous Combustion Products	Oxides of carbon (CO, CO ₂), smoke, and vapors
Sensitivity to Mechanical Impact	Probably not sensitive as material is stable.
Sensitivity to Static Discharge	Probably not sensitive
Special Equipment and Precautions	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 Explosion Hazards	Vapors can form an explosive mixture with 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

Personal Precautions	Use personal protection recommended in Section 8.
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.
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. 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.

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

ID	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	UNITED STATES ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL
1	5 mg/m ³	None Established	None Established	5 mg/m ³	10 mg/m ³	None Established	3 mg/m ³
2	None Established	None Established	None Established	None Established	None Established	None Established	None Established
3	None Established	None Established	None Established	None Established	None Established	None Established	None Established
4	None Established	25 ppm	None Established	25 ppm	None Established	None Established	None Established
5	50 ppm	50 ppm	900 ppm	50 ppm	25 ppm	20 ppm	None Established
6	50 ppm	5 ppm	700 ppm	20 ppm	20 ppm	20 ppm	None Established



MATERIAL SAFETY DATA SHEET

MDL

Revision 1 ❖ January 27, 2010

Page 4 of 7

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWAEV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	5 mg/m3	1 mg/m3	5 mg/m3	5 mg/m3	None Established	None Established	None Established
2	None Established	None Established	None Established	None Established	None Established	None Established	None Established
3	None Established	None Established	None Established	None Established	None Established	None Established	None Established
4	None Established	None Established	None Established	None Established	None Established	None Established	None Established
5	50 ppm	25 ppm	25 ppm	50 ppm	50 ppm	None Established	None Established
6	25 ppm	20 ppm	20 ppm	25 ppm	25 ppm	25 ppm	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 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.

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.

SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	300-500 °F	Melting / Freezing Point	Not Available
Flash Point	304 °F	Autoignition Temperature, Liquid	Not Determined
Explosive Limits	Not Determined	Decomposition Temperature	Not Available
Flammability	Class IIIB	Density (H ₂ O = 1)	0.866 g/cc
Molecular Weight	Not Available	Weight	7.228 lbs/gal
Vapor Pressure	1.5 mm Hg	pH	Not Available
Vapor Density	Not Available	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	Characteristic	Water Solubility	Not Available
Appearance / Color	Clear to Amber Liquid		
Percent Volatile	50% Wt (51% Vol) Max	VOC Content	433 g/L
Percent VOC	50% Wt (51% Vol) Max	HAP Content	None
Solids Content	None	Maximum Incremental Reactivity	Not Determined



MATERIAL SAFETY DATA SHEET

SECTION 10 • STABILITY AND REACTIVITY

Stability	<i>Stable</i>
Physical Hazards	<i>Flammable</i>
Conditions to Avoid	<i>Not Available</i>
Hazard Polymerization	<i>Not expected to occur</i>
Material Incompatibility	<i>Strong oxidizing agents, bases, perchloric and permonosulfuric acids</i>
Conditions of Reactivity	<i>Heat, sparks, flame, red hot metal</i>
Decomposition Products	<i>Oxides of carbon</i>

SECTION 11 • TOXICOLOGICAL INFORMATION

Irritancy of Product	<i>The following ingredients are eye irritants: 1,2,4-Trimethylbenzene, Butyl Cellosolve. The following ingredients are skin irritants: 1,2,4-Trimethylbenzene, Butyl Cellosolve. The following ingredients are respiratory irritants: 1,2,4-Trimethylbenzene, Isopropyl Benzene.</i>
Sensitization to Product	<i>The following ingredients are skin sensitizers: d-Limonene</i>
Carcinogen Data	<i>None of the ingredients are considered known or suspected carcinogens.</i>
Reproductive Toxicity	<i>None of the ingredients are considered known or suspected reproductive toxicants.</i>
Teratogenicity	<i>None of the ingredients are considered known or suspected teratogens.</i>
Mutagenicity	<i>None of the ingredients are considered known or suspected mutagens.</i>
Synergistic Products	<i>No known synergistic properties.</i>

LD₅₀ and LC₅₀ Information

ID	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
1	>2000 mg/kg, rat	>2000 mg/kg, rabbit	5 mg/L /4 hr, rat
2	Not Available	Not Available	Not Available
3	4700 mg/kg, rat	4000 mg/kg, rabbit	3670 ppm /8 hr, rat
4	5000 mg/kg, rat	>3160 mg/kg, rabbit	18 mg/L /4 hr, rat
5	1400 mg/kg, rat	>3160 mg/kg, rabbit	17.6 mg/L /6 hr, rat
6	470 mg/kg, rat	2200 mg/kg, rabbit	2211 mg/m ³ /4 hr, rat

SECTION 12 • ECOLOGICAL INFORMATION

Mobility	<i>Not Available</i>
Persistence	<i>Not Available</i>
Degradability	<i>Not Available</i>
Bioaccumulation	<i>Not Available</i>
Other Ecologic Data	<i>Do not allow to enter waters, waste water, or soil. This product is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.</i>
Effects on the Ozone Layer	<i>This product does not contain any ozone depleting ingredients.</i>

Ecotoxicity

ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	Not Available	Not Available	Not Available	Not Available
2	Not Available	Not Available	Not Available	Not Available
3	LC50: 320 mg/L /48 hr	EC50: 170 mg/L /24 hr	EC50: 56 mg/L /72 hr	Not Available
4	LC50: 7.72 mg/L /96 hr	EC50: 3.6 mg/L /48 hr	Not Available	Not Available
5	LC50: 4.7 mg/L /96 hr	EC50: 13.7 mg/L /24 hr	EC50: 14.1 mg/L /3 hr	EC10: 211 mg/L /24 hr
6	LC50: 1490 mg/L /96 hr	EC50: 1720 mg/L /24 hr	LOEC: 900 mg/L /7 day	EC5: 911 mg/L /48 hr



MATERIAL SAFETY DATA SHEET

MDL
Revision 1 ♦ January 27, 2010

Page 6 of 7

SECTION 13 • DISPOSAL CONSIDERATIONS

Waste Disposal	<i>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.</i>
Waste Disposal of Packaging	<i>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.</i>
Landfill Precautions	<i>Not Available</i>
Incineration Precautions	<i>Not Available</i>

SECTION 14 • TRANSPORTATION INFORMATION

DOT SHIPPING INFORMATION (United States) Non-Regulated Material	ICAO/IATA SHIPPING INFORMATION (International Air) Non-Regulated Material
IMDG SHIPPING INFORMATION (International Ocean) Non-Regulated Material	ADR SHIPPING INFORMATION (European Union) Non-Regulated Material
TDG SHIPPING INFORMATION (Canada) Non-Regulated Material	NMFC DESCRIPTION (United States) ITEM DESCRIPTION: <i>Compounds Lubricating</i> ITEM NUMBER: <i>50303</i> CLASS: <i>55</i>

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	✓	—	—	—	—	—	—	✓	✓	—	—	—
3	✓	—	—	—	—	✓	—	✓	✓	—	—	—
4	✓	—	—	—	9.5 %	✓	—	✓	✓	—	—	—
5	✓	—	—	—	—	✓	—	✓	✓	—	HAP	—
6	✓	—	—	—	1.0 %	—	—	✓	✓	—	—	—

United States - States

ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	✓	✓	2,4,5,6 F8	E	AO	—	✓	✓
4	—	—	✓	2,4,5,6 *T1*	—	AO	—	—	✓
5	—	—	—	—	—	—	—	—	—
6	—	✓	—	F8	E	—	✓	✓	—

Canada

ID	WHMIS CATEGORIES										CHEMICAL LISTS		
	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	—	—	—	—	—	—	—	—	—	✓	—	—	—
2	—	—	—	—	—	—	—	—	—	✓	—	5	—
3	—	B3	—	—	—	—	—	—	—	✓	—	5	—
4	—	B3	—	—	—	—	—	—	—	✓	—	1A, 5	—
5	—	B2	—	—	—	—	—	—	—	✓	—	1A, 5	—
6	—	B3	—	—	—	✓	✓	—	—	✓	—	1A, 5	—



MATERIAL SAFETY DATA SHEET

MDL

Revision 1 ♦ January 27, 2010

Page 7 of 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

CODE	RISK PHRASES
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R 36/37/38	Irritating to eyes, respiratory system and skin
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R 65	Harmful: may cause lung damage if swallowed

CODE	SAFETY PHRASES
S 2	Keep out of the reach of children
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 53	Avoid exposure
S 61	Avoid release to the environment.
S 62	If swallowed do not induce vomiting, 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.

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

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