

SAFETY DATA SHEET

24-hr Emergency Phone Number

800-255-3924 (Chem-Tel)

SECTION 1 - IDENTIFICATION

Product Identifier(s) *BR1003, BR1003B, BR1003CN*
 Product Name *Moisture Displacing Fluid*
 Other Means of Identification *None*
 Identified Uses of the Product *Displaces moisture and prevents rust in gun bores*
 Restrictions on Use *No restrictions identified*

Revision No. *4*
 Revision Date *January 19, 2016*
 Print Date *January 19, 2016*

MANUFACTURER DETAILS		DISTRIBUTOR DETAILS	
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 KC 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

GHS/CLP (1272/2008) Classification of the Substance or Mixture

HEALTH HAZARDS									
Acute Tox. Oral	<div></div>	Skin Irritation	<div>2</div>	Skin Sensitization	<div></div>	Tox. To Reproduction	<div></div>	STOT SE	<div>3</div>
Acute Tox. Skin	<div>4</div>	Eye Irritation	<div>2A</div>	Mutagenicity	<div></div>	Aspiration Hazard	<div>1</div>	STOT RE	<div></div>
Acute Tox. Inhalation	<div>4</div>	Resp. Sensitization	<div></div>	Carcinogenicity	<div>2</div>				

PHYSICAL HAZARDS									
Unstable Explosive	<input type="checkbox"/>	Oxidizing Gas	<input type="checkbox"/>	Flammable Solid	<input type="checkbox"/>	Pyrophoric Solid	<input type="checkbox"/>	Oxidizing Solid	<input type="checkbox"/>
Explosive	<input type="checkbox"/>	Gas Under Pressure	<input type="checkbox"/>	Self-Reactive Substance	<input type="checkbox"/>	Emits Flammable Gas	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>
Flammable Gas	<input type="checkbox"/>	Refrigerated Liq. Gas	<input type="checkbox"/>	Pyrophoric Liquid	<input type="checkbox"/>	Oxidizing Liquid	<input type="checkbox"/>	Corrosive to Metal	<input type="checkbox"/>
Aerosol	<input type="checkbox"/>	Flammable Liquid	<input type="checkbox"/>	Self-Heating Substance	<input type="checkbox"/>				

ENVIRONMENTAL HAZARDS	
Aquatic Acute	<div><div></div></div>
Aquatic Chronic	<div><div>2</div></div>
Ozone Depleting	<div><div></div></div>

GHS/CLP (1272/2008) Label Elements

Hazard Pictograms



Signal Word

DANGER

Hazard Statements

May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Toxic to aquatic life with long lasting effects. Harmful in contact with skin or if inhaled.

Precautionary Statements

General

Keep out of reach of children.

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Prevention	Do not handle until all safety precautions have been read and understood. Avoid breathing fumes. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Immediately call a poison center or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Remove contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek medical attention immediately.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of container and contents in an environmentally safe manner.

Other Hazards Which Do Not Result In Classification

Hazards	Not Applicable
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Other Classifications

HMIS III Classification	Health: 2	Flammability: 1	Physical Hazard: 0	
NFPA Classification	Health: 2	Flammability: 1	Reactivity: 0	Special Hazard: None

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

ID	INGREDIENT	CAS NUMBER	EINECS	INDEX NUMBER	% WT
1	Process Oil	0064742-52-5	265-155-0		30 - 60
2	Stoddard Solvent	0008052-41-3	232-489-3	649-345-00-4	15 - 40
3	1,2,4-Trimethyl Benzene	0000095-63-6	202-436-9	601-043-00-3	7 - 13
4	Castor Oil	0008001-79-4	232-293-8		
5	Sodium Sulfonate	0068608-26-4	271-781-5		
6	C9-15 Heavy Aromatic Hydrocarbons	0064742-95-6	265-199-0	649-356-00-4	1 - 5
7	Cumene	0000098-82-8	202-704-5	601-024-00-X	1 - 5
8	Butyl Carbitol	0000112-34-5	203-961-6	603-096-00-8	0.5 - 1.5
9	Xylene	0001330-20-7	215-535-7	601-022-00-9	0.1 - 1.0
10	Mesitylene	0000108-67-8	203-604-4	601-025-00-5	0.1 - 1.0
11	Ethyl Benzene	0000100-41-4	202-849-4	601-023-00-4	0.1 - 1.0

SECTION 4 - FIRST-AID MEASURES

Description of First-Aid Measures

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek medical attention immediately.
Skin Contact	Remove with soap and water, rinsing and repeating for 15 minutes. Remove contaminated clothing.
Ingestion	Immediately call a poison center or physician. Rinse mouth. Do NOT induce vomiting.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-Aid Responder Protection	Wear adequate personal protective equipment based on the nature and severity of the emergency.

Most Important Symptoms and Effects, Both Acute and Delayed

Eye Contact	Liquid contact may damage the eyes, causing pain along with severe eye irritation.
Skin Contact	Causes skin irritation and burns. Repeated exposure may cause skin dryness or cracking.
Ingestion	May be fatal if swallowed and enters airways.
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Indication of Immediate Medical Attention and Special Treatment

Notes to Physician	Treat symptomatically.
Specific Treatments/Antidotes	Details on specific treatments and/or antidotes are not available.
Immediate Medical Attention	No information available.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media

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

Specific Hazards Arising from the Chemical or Mixture

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Decomposition Products	Decomposition products may include oxides of carbon as well as smoke, and/or vapors.
Hazards from the Product	In a fire or if heated, a pressure increase will occur which may result in the container bursting. Vapors heavier than air may spread along the ground and travel to an ignition source.
Mechanical Impact Sensitivity	Probably not sensitive as material is stable.
Static Discharge Sensitivity	Probably not sensitive as material has a high flash point.

Special Protection Actions for Fire-Fighters

Protective Actions	Use water spray to cool fire exposed containers, as contents may rupture from heat developed pressure.
Protective Equipment	Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel	No action shall be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.
For Emergency Responders	Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.

Environmental Precautions

Precautions	Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
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Methods and Materials for Containment and Cleaning up

Containment Procedures	Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.
Cleanup Procedures	Avoid breathing vapors and ventilate the 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	The North American Emergency Response Guidebook, the Australian Dangerous Goods-Initial Emergency Response Guide (SAA/SNZ HB 76), 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.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling

General Handling Precautions	KEEP OUT OF THE REACH OF CHILDREN.
Hygiene Recommendations	Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.

Conditions for Safe Storage Including And Incompatibilities

Storage Requirements	In the United States, storage of flammable materials should conform to NFPA 30 Flammable and Combustible Liquid. Outside the United States conformance to local and/or federal codes should be observed. Keep containers tightly closed and stored in a well-ventilated place. Keep away from sources of ignition.
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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.

Incompatibilities	Segregate storage away from materials indicated in Section 10.
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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

ID	AUSTRALIA TWA	ALBERTA OEL	BC TWA	CANADA ONTARIO TWA EV	QUEBEC TWA	GERMANY MAK	JAPAN OEL	MEXICO MPEL-PTA	UNITED KINGDOM WEL	OSHA PEL	NIOSH REL	NIOSH IDLH	ACGIH TLV
1	10 mg/m3	5 mg/m3	1 mg/m3	5 mg/m3	5 mg/m3		3 mg/m3			10 mg/m3			
2	790 mg/m3	100 ppm	290 mg/m3	525 mg/m3	100 ppm			100 ppm		500 ppm	350 mg/m3	20 g/m3	100 ppm
3	25 ppm	25 ppm	25 ppm	25 ppm	25 ppm	100 mg/m3	25 ppm	25 ppm	25 ppm	25 ppm	25 ppm		25 ppm
7	25 ppm	50 ppm	25 ppm	50 ppm	50 ppm	250 mg/m3		50 ppm	25 ppm	50 ppm	50 ppm	900 ppm	50 ppm
9	80 ppm	100 ppm	100 ppm	100 ppm	100 ppm	440 mg/m3	50 ppm	100 ppm	50 ppm	100 ppm	100 ppm	900 ppm	100 ppm
10	25 ppm	25 ppm	25 ppm	25 ppm	25 ppm	20 ppm	25 ppm	25 ppm	25 ppm	25 ppm	25 ppm		25 ppm
11	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm		50 ppm	100 ppm	100 ppm	100 ppm	100 ppm	800 ppm	100 ppm

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Biological Exposure Indices

ID	DETERMINANT	SAMPLING TIME	BEI	NOTATION
9	Methylhippuric acids in urine	End of shift	1.5 g/g creatinine	
11	Sum of mandelic acid and phenyl glyoxylic acid in urine	End of shift at end of workweek	0.7 g/g creatinine	Ns, Sq

Appropriate Engineering Controls

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.

Individual Protection Measures

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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	149-260 °C (300-500 °F)	Melting / Freezing Point	Not Available
Flash Point	151 °C (304 °F)	Decomposition Temperature	Not Available
Explosive Limits	Not Available	Autoignition Temperature	Not Available
Flammability	Class III Liquid	Relative Density (H2O = 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 (nBAc = 1)	Not Available
Physical State	Liquid	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor / Odor Threshold	Distinct	Heat of Combustion	Not Available
Appearance / Color	Clear light to dark amber	Water Solubility	Not Available
Percent Volatile	50% Wt (54% Vol) Max	VOC Content	3.514 lbs/gal (421.000 g/L)
Percent VOC	49% Wt (53% Vol) Max	HAP Content	0.151 lbs/gal (18.043 g/L)
Solids/Non Volatile Content	50% Wt (46% Vol) Max	Maximum Incremental Reactivity	1.931 g O3/g

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity is available for this product or its ingredients.
Chemical Stability	This product is stable.
Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions are not expected to occur.
Conditions to Avoid	Keep away from heat, sparks, flame, and red hot metal.
Material Incompatibility	Acids, Bases, Chlorosulfuric Acid, Dichlorohydrantion, Nitric Acid, Sulfuric Acid
Decomposition Products	Oxides of carbon may be formed depending on fire conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

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ID	ORAL LD50		DERMAL LD50		INHALATION LC50		
	VALUE	SPECIES	VALUE	SPECIES	VALUE	TIME	SPECIES
1	>2000 mg/kg	rat	>2000 mg/kg	rabbit	5 mg/L	4h	rat
2	—	—	500 mg/kg	rabbit	—	—	—
3	5000 mg/kg	rat	>3160 mg/kg	rabbit	18000 mg/m3	4h	rat
5	>5000 mg/kg	rat	—	—	—	—	—
6	8400 mg/kg	rat	4000 mg/kg	rabbit	>14.4 mg/L	6h	rat
7	5000 mg/kg	rat	>3160 mg/kg	rabbit	39 mg/L	4h	rat
8	5660 mg/kg	rat	4000 mg/kg	rabbit	—	—	—
9	4300 mg/kg	rat	4500 mg/kg	rabbit	6700 mg/L	4h	rat
10	5000 mg/kg	rat	—	—	24000 mg/m3	4h	rat
11	4720 mg/kg	rat	15500 mg/kg	rabbit	4000 ppm	4h	rat

Skin Corrosion/Irritation

Trimethyl Benzene and Xylene causes skin irritation.

Eye Damage/Irritation

Trimethyl Benzene and Butyl Carbitol causes serious eye irritation.

Respiratory Irritation

Trimethyl Benzene, Cumene and Mesitylene may cause respiratory irritation.

Respiratory or Skin Sensitization

None of the ingredients are known to cause sensitization.

Germ Cell Mutagenicity

None of the ingredients are known or suspected of causing genetic defects.

Carcinogen Data

Cumene is listed as follows: Is known by the State of California to cause cancer.

Ethyl Benzene is listed as follows: I known by the State of California to cause cancer. ACGIH as A3 (confirm animal carcinogen with unknown relevance to humans). IARC as Group 2B (possibly carcinogenic to humans).

Reproductive Toxicity

None of the ingredients are known to cause reproductive harm.

STOT-Single Exposure

None of the ingredients are known to cause specific target organ effects from a single exposure.

STOT-Repeated Exposure

None of the ingredients are known to cause specific target organ effects through prolonged or repeated exposure.

Aspiration Hazard

Stoddard Solvent, C9-15 Aromatic Hydrocarbons, and Cumene may be fatal if swallowed and enters airways.

Information on the Likely Routes of Exposure

Routes of Exposure

Skin contact, absorption, eye contact, inhalation.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Symptoms of Exposure

Abdominal cramps, bronchitis, chemical pneumonitis, coma, confusion, cough, dermatitis, dizziness, drowsiness, excitation, eye irritation, headache, incoordination, skin irritation, staggering gait, throat irritation, upper respiratory system irritation, vomiting.

Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure

Delayed Effects

No known delayed effects.

Immediate Effects

No known immediate effects.

Chronic Effects

Not available.

Medical Conditions Aggravated

May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

Target Organs

Bladder, blood, central nervous system, eyes, gastrointestinal tract, kidneys, liver, respiratory system, skin.

Interactive Effects

Synergistic Effects

No known synergistic effects.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity

ID	TYPE	FISH			INVERTEBRATES			AQUATIC PLANTS			MICROORGANISMS	
		VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD
3	LC50	9.22 mg/L	96h	EC50	6.14 mg/L	48h	—	—	—	—	—	—
6	LC50	320 mg/L	48h	EC50	170 mg/L	24h	EC50	56 mg/L	72h	—	—	—
7	LC50	4.7 mg/L	96h	EC50	13.7 mg/L	24h	EC50	26 mg/L	72h	EC10	211 mg/L	24h
8	LC50	2000 mg/L	95h	EC50	>100 mg/L	48h	EC3	1000 mg/L	7d	EC10	1170 mg/L	16h

Ecological Data

ID	PERSISTENCE		PERSISTENCE AND DEGRADABILITY		BIOACCUMULATIVE POTENTIAL		MOBILITY
	PERIOD	TYPE	BOD	COD	ThOD	Pow / Kow	Koc
1	—	—	—	—	—	3.15 log Pow	—
3	—	—	—	—	—	3.714 log Pow	2.12 log BCF
6	—	—	—	—	—	2.1 log Pow	—
7	—	—	—	—	—	3.66 log Pow	2.49 log BCF

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9	—	0.64 mg/L	—	2410 mg/g	3.271 log Pow	2.2557 log BCF	3.156 log Koc
10	—	—	—	—	3.83 log Pow	2.68 log BCF	3.46 log Koc
11	—	1780 mg/g	—	3170 mg/g	3.15 log Pow	1.18 log BCF	2.4 log Koc

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. 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 with regular trash. 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

Incineration Precautions

Not Available

SECTION 14 - TRANSPORTATION INFORMATION

DOT	ICAO/IATA	IMDG	ADR	TDG
ID Number	NON-REGULATED MATERIAL			

SECTION 15 - REGULATORY INFORMATION

United States - Federal Regulations

ID	TSCA LISTED	SARA 302 EHS TPQ	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT HAP	CLEAN AIR ACT SOCMI	CLEAN WATER ACT
1	✓												
2	✓							✓					
3	✓				11%	✓		✓					
4	✓												
5	✓												
6	✓							✓					
7	✓		U055	5,000	1%	✓		✓			✓	✓	
8	✓							✓					
9	✓		U239	100	1%	✓		✓			✓	✓	100
10	✓					✓		✓					
11	✓			1,000	< 1%	✓		✓			✓	✓	1,000, PP

United States - State Regulations

ID	CA P-65	DE RQ	MA RTK CODES	ME TYPE	ME RQ	RTK	MN AIR	WATER	NJ RTK	NY AIR	NY LAND	ACUTE	PA LISTED	WA PEL TWA	WI TABLE	WV TAP
2			2,4			ANO							✓	100 ppm	A	
3		100	F7 F9		1000				✓				✓-E			
7	C	5000	2,4,5 F7 F8 F9		2000	AO	✓		✓	5000	1		✓-E	50 ppm	A	
9		100	2,4 F8 F9		2000	ANO	✓		✓	1000	1		✓-E	100 ppm	A	
10			F7													
11	C	1000	2,4,5,6 F7 F8 F9		2000	AO	✓	✓	✓	1000	1		✓-E	100 ppm	A	

Canadian Regulations

ID	A	B	C	D1A	WHMIS CATEGORIES D1B	D2A	D2B	D3	E	DSL	CHEMICAL LISTS NDSL	NPRI
1										✓		
2		B3					✓			✓		5
3		B3								✓		1A,5
4										✓		
5										✓		
6		B3					✓			✓		5
7		B2				✓				✓		1A
8		B3					✓			✓		5
9		B2				✓	✓			✓		1A,5
10		B3								✓		
11		B2				✓	✓			✓		1A

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CPR Notice

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.

WHMIS Classification

B2,D2A,D2B

WHMIS Symbols



European Union Regulations

ID	1907/2006 SVHC	67/548/EEC CLASSIFICATION	HAZARD CODES	1272/2008 PICTOGRAM CODES	SUPPL. CODES
2			H304		
3		Xn; N	H226,H332,H319,H335,H315,H411	GHS02,GHS07,GHS09,Wng	
6		Xn	H304		
7		Xn;N	H226,H304,H335,H411	GHS02,GHS07,GHS08,GHS09,Dgr	
8		Xi	H319	GHS07,Wng	
9		Xn	H226,H332,H312,H315	GHS02,GHS07,Wng	
10		Xi;N	H226,H335,H411	GHS02,GHS07,GHS09,Wng	
11		F;Xn	H225,H332	GHS02,GHS07,Dgr	

Classification According to EU Directive 1999/45/EC or 67/548/ECC (see Section 16 for full text)

67/548/EEC Pictograms



Risk Phrases

20/21-36/37/38-51/53-65

Safety Phrases

2-24/25-26-29-27-61-62

International Regulations

Chemical Weapons Convention

None of the ingredients are listed on the convention's schedules.

SECTION 16 - OTHER INFORMATION

Full Text of EU Phrases and Precautionary Statements

CODE	HAZARD STATEMENTS
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects
H312+H332	Harmful in contact with skin or if inhaled

CODE	SUPPLEMENTAL STATEMENTS

CODE	PRECAUTIONARY STATEMENTS
P102	Keep out of reach of children
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion proof equipment
P242	Use only non-sparking tools
P243	Take precautions against static discharge
P261	Avoid breathing fumes
P264	Wash hands thoroughly after handling
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection

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

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65 | Harmful: may cause lung damage if swallowed

CODE	SAFETY PHRASES
2	Keep away from children
24/25	Avoid contact with 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
37	Wear suitable gloves
61	Avoid release to the environment
62	If swallowed do not induce vomiting: seek medical advice immediately

SDS Revision History
 Revision 1, 10/27/2010 - original
 Revision 2, 06/24/2012 - updated to include GHS and CLP information
 Revision 3, 03/07/2013 - updated to full GHS compliance
 Revision 4, 01/19/2016 - general update

SDS Prepared By Hazard Communication Associates, sds@hazcom411.com

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References and Sources CAMEO Database of Hazardous Materials (<http://cameochemicals.noaa.gov>)
 CHEMpendium Database (<http://ccinfoweb.ccohs.ca/chempendium/search.html>)
 ChemSpider Chemical Database (<http://chemspider.com>)
 European Chemical Substances Information System (<http://esis.jrc.ec.europa.eu>)
 European Chemicals Agency (<http://echa.europa.eu>)
 International Chemical Safety Cards (<http://www.cdc.gov/niosh/ipcs/ipccard.html>)
 IUCLID Chemical Data Sheets Information System (<http://esis.jrc.ec.europa.eu/index.php?PGM=dat>)
 Merck Chemical Database (<http://www.merckmillipore.co.uk/chemicals>)
 NIOSH Pocket Guide to Chemical Hazards (<http://www.cdc.gov/niosh/npg/>)
 Right to Know Hazardous Substance Fact Sheets (<http://web.doh.state.nj.us/rtkhsfs/indexfs.aspx>)
 RTECS Database (<http://ccinfoweb.ccohs.ca/rtecs/search.html>)
 SOLV-DB, Solvent Database (<http://solvdb.ncms.org/solvdb.htm>)
 Toxic Substances Portal (<http://www.atsdr.cdc.gov/toxprofiles/index.asp>)
 TOXNet (<http://toxnet.nlm.nih.gov>)

Abbreviations Used

ACGIH	American Conference of Industrial Hygienists	NDSL	Non-Domestic Substance List (Canada)
ADR	European Agreement ... International Carriage of Dangerous Goods by Road	NIOSH	National Institute for Occupational Safety and Health (USA)
BCF	Bioconcentration Factor	NJ	New Jersey
BEI	Biological Exposure Index	NOEC	No Observed Effect Concentration
BOD	Biochemical Oxygen Demand	NPRI	National Pollutant Release Inventory (Canada)
CA	California	NTP	National Toxicity Program (USA)
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (USA)	NY	New York
CFR	Code of Federal Regulations (USA)	OEL	Occupational Exposure Limit
CLP	Classification, Labelling and Packaging of Substances (Europe)	OSHA	Occupational Safety and Health Administration (USA)
COD	Chemical Oxygen Demand	P-65	Proposition 65 (USA)
CPR	Controlled Products Regulations (Canada)	PA	Pennsylvania
DE	Delaware	Pow	Octanol-Water Partition Coefficient
DOT	Department of Transportation (USA)	ppm	Parts per Million
DSL	Domestic Substance List (Canada)	psig	Pounds per Square Inch Gage
EC	European Community	RCRA	Resource Conservation and Recovery Act (USA)
EC50	Effective Concentration 50%	REL	Recommended Exposure Limit
EHA	Extremely Hazardous Substance	RQ	Reportable Quantity
EPA	Environmental Protection Agency (USA)	RTK	Right to Know
g/cc	Grams per Cubic Centimeter	SARA	Superfund Amendments and Reauthorization Act (USA)
GHS	Globally Harmonized System	SDS	Safety Data Sheet
HAP	Hazardous Air Pollutant	SOCMI	Synthetic Organic Chemical Manufacturing Industry (USA)
IARC	International Agency for Research on Cancer	STOT-RE	Suspected Target Organ Toxin, Repeat Exposure
IATA	International Air Transportation Association	STOT-SE	Suspected Target Organ Toxin, Single Exposure
IC50	Half Maximal Inhibitory Concentration	SVHC	Substance of Very High Concern
ICAO	International Civil Aviation Organization	TAP	Toxic Air Pollutant
IDLH	Immediately Dangerous to Life and Health	TDG	Transportation of Dangerous Goods (Canada)
IMDG	International Maritime Dangerous Goods	ThOD	Theoretical Oxygen Demand
Kow	Octanol-Water Partition Coefficient	TLV	Threshold Limit Value
lbs/gal	Pounds per Gallon	TPQ	Threshold Planning Quantity
LC50	Lethal Concentration 50%	TSCA	Toxic Substances Control Act (USA)
LD50	Lethal Dosage 50%	TWA	Time Weighted Average
MA	Massachusetts	TWAEV	Time Weighted Average Exposure Value
MAK	Maximale Arbeitsplatz Konzentration (Maximum Workplace Concentration)	VOC	Volatile Organic Compound
Max	Maximum	WA	Washington
mg/L	Milligrams per Litre	WEL	Workplace Exposure Limit
mg/m3	Milligrams per Cubic Meter	WHMIS	Workplace Hazardous Materials Information System (Canada)
MN	Minnesota	WI	Wisconsin
MPEL-PTA	Maximum Permissible Exposure Limit on Pondered Time Average	WV	West Virginia