

SECTION 1 - IDENTIFICATION

Product Identifier

Product Number(s) *F7116CT*
 Product Name *Fiber Protector*

Other Means of Identification *None*

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses *Fabric Protection*
 Restrictions On Use *None identified*

24 hr Emergency Phone Number
800-255-3924
(Chem-Tel – Contract #MIS001566)

Manufacturer Details		Supplier Details	
Manufacturer Name	<i>Chem-Pak, Inc.</i>	Supplier Name	<i>Fiber Protector America LLC</i>
Address	<i>242 Corning Way Martinsburg WV 25405</i>	Address	<i>1100 Jones Street PO Box 3597 Little Rock AR 72202</i>
Phone Number	<i>800-336-9828</i>	Phone Number	<i>501-374-4402</i>
Fax Number	<i>304-262-9643</i>	Fax Number	

SECTION 2 - HAZARDS IDENTIFICATION

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

HEALTH HAZARDS				PHYSICAL HAZARDS					
Acute Tox. Oral	<input type="checkbox"/>	Mutagenicity	<input type="checkbox"/>	Unstable Explosive	<input type="checkbox"/>	Refrigerated Liq. Gas	<input type="checkbox"/>	Pyrophoric Solid	<input type="checkbox"/>
Acute Tox. Skin	<input type="checkbox"/>	Carcinogenicity	<input type="checkbox"/>	Explosive	<input type="checkbox"/>	Flammable Liquid	<input type="checkbox"/>	Emits Flammable Gas	<input type="checkbox"/>
Acute Tox. Inhalation	<input type="checkbox"/>	Tox. to Reproduction	<input type="checkbox"/>	Flammable Gas	<input type="checkbox"/>	Flammable Solid	<input type="checkbox"/>	Oxidizing Liquid	<input type="checkbox"/>
Skin Irritation	<input type="checkbox"/>	STOT SE	<input type="checkbox"/> 3	Aerosol	<input type="checkbox"/> 1	Self-Reactive Sub.	<input type="checkbox"/>	Oxidizing Solid	<input type="checkbox"/>
Eye Irritation	<input type="checkbox"/> 2A	STOT RE	<input type="checkbox"/>	Oxidizing Gas	<input type="checkbox"/>	Pyrophoric Liquid	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>
Resp. Sensitization	<input type="checkbox"/>	Aspiration Hazard	<input type="checkbox"/>	Gas Under Pressure	<input type="checkbox"/>	Self-Heating Substance	<input type="checkbox"/>	Corrosive to Metal	<input type="checkbox"/>
Skin Sensitization	<input type="checkbox"/>		<input type="checkbox"/>	ENVIRONMENTAL HAZARDS					
	<input type="checkbox"/>		<input type="checkbox"/>	Aquatic Acute	<input type="checkbox"/>	Aquatic Chronic	<input type="checkbox"/>	Ozone Depleting	<input type="checkbox"/>

GHS/CLP (1272/2008) Label Elements

Hazard Pictograms



Signal Word

Danger!

Hazard Statements

Extremely flammable aerosol. Pressurized container: may burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary Statements

General

Keep out of reach of children.

NFPA / HMIS Classification

	HEALTH	* 2
	FLAMMABILITY	4
	PHYSICAL HAZARD	0

Prevention	Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	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. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention.
Storage	Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
Disposal	Dispose of contents/container in accordance with local regulations.

Other Hazards Which Do Not Result In Classification

Hazards None known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

ID	INGREDIENT	CAS NUMBER	EC NUMBER	INDEX NUMBER	% WT RANGE
1	Isopropanol	0000067-63-0	200-661-7	603-17-00-0	60 - 100
2	Liquefied Petroleum Gas	0068476-86-8	270-705-8	649-203-00-1	15 - 40
3	N-Butyl Acetate	0000123-86-4	204-658-1	607-025-00-1	1 - 5

SECTION 4 - FIRST-AID MEASURES

Description of First-Aid Measures

Eye Contact	Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.
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 irritation continues. If large skin area is affected, remove contaminated clothing.
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.
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.
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 cause pain along with moderate eye irritation.
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.
Ingestion	Due to being an aerosol, the product does not lend itself to 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.
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 dyspnea are also possible.

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

Decomposition Products Decomposition products may include oxides of carbon (CO, CO₂), smoke, and/or vapors.

Hazards from the Product Contents extremely flammable and under pressure. In a fire or if heated, a pressure increase will occur which may result in container bursting. Vapors heavier than air may spread along the ground and travel to ignition source.

Mechanical Impact Sensitivity Mechanical impact may cause aerosol can to rupture, resulting in a rapid release of its contents. In the presence of an ignition source the liquid and/or vapor content may be ignited.

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

Special Protection Actions for Fire-Fighters

Protective Actions Use water spray to cool fire exposed aerosol containers, as contents can rupture violently 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 should 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.

Methods and Materials for Containment and Cleaning up

Containment Procedures Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents. DO NOT use combustible material such as sawdust.

Cleanup Procedures Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, 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 Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal.

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. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation. Wash hands after use.

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 Storage of individual cans should be done in an area below 55 °C (120 °F), 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 30B (Manufacture and Storage of Aerosol Products) is recommended. This product is classified as a Level 3 Aerosol.

Incompatibilities Segregate storage away from materials indicated in Section 10.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

ID	AUSTRALIA	ALBERTA	CANADA			GERMANY	JAPAN	MEXICO	UK	OSHA	UNITED STATES		
	TWA	OEL	BC TWA	ONTARIO TWA/EV	QUEBEC TWA	MAK	OEL	MPEL-PTA	WEL	PEL	NIOSH REL	NIOSH IDLH	ACGIH TLV
1	400 ppm	400 ppm	200 ppm	200 ppm	400 ppm	500 mg/m3	400 ppm	400 ppm	200 ppm	400 ppm	400 ppm	2000 ppm	200 ppm
2	1000 ppm	1000 ppm	1000 ppm	1000 ppm	—	—	—	—	1000 ppm	1000 ppm	1000 ppm	2000 ppm	1000 ppm
3	150 ppm	150 ppm	20 ppm	150 ppm	150 ppm	480 mg/m3	100 ppm	150 ppm	150 ppm	150 ppm	150 ppm	1700 ppm	150 ppm

Biological Exposure Indices

ID	DETERMINANT	SAMPLING TIME	BEI	NOTATION
1	Acetone in urine	End of shift at end of workweek	40 mg/L	Ns, B

Other Control Parameters Not available.

Appropriate Engineering Control

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 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	> 82.2 °C (180.0 °F)	Melting / Freezing Point	> -88.0 °C (-126.4 °F)
Flash Point, Liquid	> 11.0 °C (51.8 °F)	Flash Point, Propellant	-82.8 °C (-117.0 °F)
Explosive Limits	1.70% to 12.00%	Autoignition Temperature, Liquid	399.0 °C (750.2 °F)
Flammability	Extremely Flammable Aerosol	Relative Density (H2O = 1)	0.716 g/cc
Molecular Weight	Not Available	Weight	5.972 lbs/gal
Vapor Pressure	45.98 psig	pH	Not Available
Vapor Density	2.070 g/cc Maximum	Evaporation Rate	Not Available
Form	Pressurized Product	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion	Not Available



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Odor	Mild	Water Solubility	Not Available
Appearance / Color	Clear, colorless	Decomposition Temperature	Not Available
Percent Volatile	99% Wt (99% Vol) Max	VOC Content	5.892 lbs/gal (705.907 g/L)
Percent VOC	99% Wt (99% Vol) Max	HAP Content	None
Solids/Non Volatile Content	2% Wt (2% Vol) Max	Maximum Incremental Reactivity	0.821 g O ₃ /g

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity is available for this products 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	Acetaldehyde, Alkali Metals, Aluminum, Chlorine, Chlorine Dioxide, Ethylene Oxide, Isocyanates, Nitrates, Potassium Tert-Butoxide, Strong Acids, Strong Oxidizing Agents, Trinitromethane
Decomposition Products	Oxides of Carbon, Acetic Acid, n-Butanol may be formed depending on fire conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

ID	ORAL LD50		DERMAL LD50		INHALATION LC50		
	VALUE	SPECIES	VALUE	SPECIES	VALUE	TIME	SPECIES
1	4720 mg/kg	rat	12890 mg/kg	rabbit	17000 ppm	4h	rat
2	—	—	—	—	57.42% v/v	—	mice
3	13100 mg/kg	rat	>14100 mg/kg	rabbit	>21 mg/L	4h	rat

Skin Corrosion/Irritation	None of the ingredients are known to be corrosive to the skin or cause skin irritation.
Eye Damage/Irritation	Isopropanol causes serious eye irritation.
Respiratory Irritation	None of the ingredients are known to 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	None of the ingredients are known or suspected carcinogens.
Reproductive Toxicity	None of the ingredients are known to cause reproductive harm.
STOT-Single Exposure	Isopropanol, N-Butyl Acetate may cause drowsiness or dizziness.
STOT-Repeated Exposure	None of the ingredients are known to cause specific target organ effects through prolonged or repeated exposure.
Aspiration Hazard	None of the ingredients are known to be an aspiration hazard.

Information on the Likely Routes of Exposure

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

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Symptoms of Exposure Asphyxia, Dizziness, Drowsiness, Dry Cracking Skin, Skin Irritation, Throat Irritation, Upper Respiratory System Irritation

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 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.

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



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Target Organs Central Nervous System, Eyes, Respiratory System, Skin

Interactive Effects

Synergistic Effects No known synergistic effects.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity

ID	FISH			INVERTEBRATES			AQUATIC PLANTS			MICROORGANISMS		
	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD
1	LC50	9460 mg/L	96h	EC50	>10000 mg/L	24h	EC50	>1000 mg/L	72h	LOEC	4930 mg/L	72h
3	LC50	62 mg/L	96h	EC50	72.8 mg/L	24h	EC50	675 mg/L	72h	EC50	959 mg/L	18h

Ecological Data

ID	PERSISTENCE	PERSISTENCE AND DEGRADABILITY			BIOACCUMULATIVE POTENTIAL		MOBILITY
		BOD	COD	ThOD	Pow / Kow	BCF	
1	-	-	-	2400 mg/g	0.05 log Kow	3.162 log BCF	0.122 log Koc
3	-	520 mg/g	2320 mg/g	2207 mg/g	1.804 log Pow	1.14 log BCF	2.35 log Koc

Other Adverse Effects No additional information available.

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 In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.

Landfill Precautions Not Available

Incineration Precautions ** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **

SECTION 14 - TRANSPORTATION INFORMATION

	UNITED STATES DOT	INTERNATIONAL AIR ICAO/IATA	INTERNATIONAL OCEAN IMDG	UNITED NATIONS ADR	CANADA TDG
ID Number	UN1950	UN1950	UN1950	UN1950	UN1950
Proper Shipping Name	Aerosols, Limited Quantity	Aerosols, Flammable, Limited Quantity	Aerosols, Limited Quantity	Aerosols, Limited Quantity	Aerosols, Limited Quantity
Hazard Class(es)	2.1	2.1	2.1	2.1	2.1
Packing Group	—	—	—	—	—
Environmental Hazards	No	No	No	No	No
Special Precautions	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

	UNITED STATES DOT	INTERNATIONAL AIR ICAO/IATA	INTERNATIONAL OCEAN IMDG	UNITED NATIONS ADR	CANADA TDG
Hazard Labels					

Additional Shipping Details Not available.

SECTION 15 - REGULATORY INFORMATION

United States - Federal Regulations

ID	TSCA LISTED	SARA 302 EHS TPQ	RCRA	CERCLA	SARA 313	SARA 311/312					CLEAN AIR ACT		CLEAN WATER ACT
						FIRE	REACTIVITY	ACUTE	CHRONIC	PRESSURE	HAP	SOCMI	
1	Yes	-	-	-	71%	Yes	-	Yes	-	-	-	-	-
2	Yes	-	-	-	-	Yes	-	-	-	-	-	-	-
3	Yes	-	-	5000	-	Yes	-	Yes	-	-	-	-	5000

United States - State Regulations

ID	CA P-65	DE RQ	MA RTK CODES	ME TYPE	RQ	RTK	MN AIR	WATER	NJ RTK	AIR	NY LAND	ACUTE	PA LISTED	WA PEL TWA	WI TABLE	WV TAP
	1	-	-	2,4,5,6 F9	-	2000	ANO	-	-	Yes	-	-	-	Yes-E	400 ppm	-
3	-	5000	2,4,5,6 F8	-	2000	AO	-	-	-	5000	100	-	Yes-E	150 ppm	-	-

Canadian Regulations

ID	WHMIS CATEGORIES										CHEMICAL LISTS		
	A	B	C	D1A	D1B	D2A	D2B	D3	E	F	DSL	NDSL	NPRI
1	-	B2	-	-	-	-	X	-	-	-	Yes	-	1A, 5
2	X	B1	-	-	-	-	-	-	-	-	Yes	-	-
3	-	B2	-	-	-	-	X	-	-	-	Yes	-	5

CPR Notice

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

WHMIS Classification

A, B5, D2B

WHMIS Symbols



European Union Regulations

ID	1907/2006 SVHC	1999/45/EC or 67/548/EEC CLASSIFICATION	HAZARD CODES	1272/2008 CLP PICTOGRAM CODES	SUPPL. CODES
	1	-	F, Xi	H225, H319, H336	GHS02, GHS07, Dgr
2	-	F+	H220	GHS02, Dgr	-
3	-	-	H226, H336	GHS02, GHS07, Wng	EUH066

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

Pictograms



Risk Phrases

12-36-66-67

Safety Phrases

2-16-24/25-26

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
H222	Extremely Flammable aerosol.
H229	Pressurized container: may burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

CODE	SUPPLEMENTAL HAZARDS
EUH066	Repeated exposure may cause skin dryness or cracking.

CODE	PRECAUTIONARY STATEMENTS
P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C /122 °F.

CODE	RISK PHRASES
R 12	Extremely flammable.
R 36	Irritating to eyes.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness or dizziness.

CODE	SAFETY PHRASES
S 2	Keep out of reach of children.
S 16	Keep away from sources of ignition – No smoking.
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.

SDS Revision History Revision 1, 07/18/2013 Original in GHS Version 4 Format

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.

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/ipcard.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/hpg/>)
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	BCF	Bioconcentration Factor
ADR	European Agreement ... International Carriage of Dangerous Goods by Road	BEI	Biological Exposure Index



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