SECTION 1 - IDENTIFICATION

Product Identifier

Product Number(s)	*641-9*
Product Name	*Custom Oil - Hunter Satin*
Other Means of Identification	*None*

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

Identified Uses	*Gunstock Finish*
Restrictions On Use	*None identified*

24 hr Emergency Phone Number

800-255-3924
(Chem-Tel – Contract #MIS001566)

Manufacturer Details		**Supplier Details**	
Manufacturer Name	*Chem-Pak, Inc.*	**Supplier Name**	
Address	*242 Corning Way* *Martinsburg WV 25405*	**Address**	
Phone Number	*800-336-9828*	**Phone Number**	
Fax Number	*304-262-9643*	**Fax Number**	

SECTION 2 - HAZARDS IDENTIFICATION

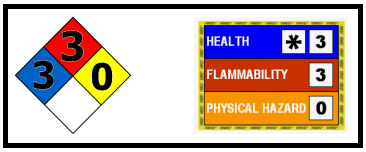
GHS/CLP (1272/2008) Classification of the Substance or Mixture

HEALTH HAZARDS				PHYSICAL HAZARDS					
Acute Tox. Oral	4	Mutagenicity		Unstable Explosive		Refrigerated Liq. Gas		Pyrophoric Solid	
Acute Tox. Skin	4	Carcinogenicity	2	Explosive		Flammable Liquid	1	Emits Flammable Gas	
Acute Tox. Inhalation	4	Tox. to Reproduction	2	Flammable Gas		Flammable Solid		Oxidizing Liquid	
Skin Irritation	2	STOT SE	3	Aerosol		Self-Reactive Sub.		Oxidizing Solid	
Eye Irritation	2A	STOT RE	2	Oxidizing Gas		Pyrophoric Liquid		Organic Peroxide	
Resp. Sensitization		Aspiration Hazard	1	Gas Under Pressure		Self-Heating Substance		Corrosive to Metal	
Skin Sensitization				ENVIRONMENTAL HAZARDS					
				Aquatic Acute		Aquatic Chronic	2	Ozone Depleting	

GHS/CLP (1272/2008) Label Elements

Hazard Pictograms

NFPA / HMIS Classification



Signal Word *Danger!*

Hazard Statements *Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child . May cause damage to organs through prolonged or repeated exposure . Toxic to aquatic life with long lasting effects. Harmful if swallowed, in contact with skin or if inhaled.*

Precautionary Statements

General *Keep out of reach of children.*

Prevention *Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do no eat, drink or smoke when using this product. 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 doctor/physician. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all 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. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire use water, CO2, dry chemical, or universal aqueous film forming foam for extinction. Collect spillage.*

Storage *Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.*

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	N-Hexane	0000110-54-3	203-777-6	601-037-00-0	30 - 60
2	Stoddard Solvent	0008052-41-3	232-489-3	649-345-00-4	10 - 30
3	Xylene	0001330-20-7	215-535-7	601-022-00-9	3 - 7
4	Butyl Cellosolve	0000111-76-2	203-905-0	603-014-00-0	1 - 5
5	Dearomatized Aliphatic Hydrocarbon	0064742-47-8	265-149-8	649-422-00-2	1 - 5
6	Ethyl Benzene	0000100-41-4	202-849-4	601-023-00-4	0.5 - 1.5
7	1,2,4-Trimethyl Benzene	0000095-63-6	202-436-9	601-043-00-3	0.1 - 1

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 *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 odema.*

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	*Epinepherine and other sympathomimetic drugs may initiate cardiac arrhythmias (irregular beating) in persons exposed to high concentrations of n-Hexane. If used, monitor heart activity closely.* *Stoddard Solvent sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drupgs may initiate cardiac arrhythmias in individuals exposed. Use of sympathomimetic drugs should be avoided. If ingested, the material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left later lateral decubitus position.*
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. 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 an source.*
Mechanical Impact Sensitivity	*Probably not sensitive as material is stable.*
Static Discharge Sensitivity	*n-Hexane can accumulate static charge by flow or agitation due its low electrical conductivity (100 pS/m (36)). Vapour in the flammable range can be ignited readily by static discharge of sufficient energy. Minimum ignition energy: 0.24 millijoules.*

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 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	*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	*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. When using in spray application, conformance to NFPA 33 Spray Applications using Flammable and Combustible Materials is recommended.*

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.*

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.*

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

ID	AUSTRALIA TWA	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWAEV	CANADA QUEBEC TWA	GERMANY MAK	JAPAN OEL	MEXICO MPEL-PTA	UK WEL	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	ACGIH TLV
1	20 ppm	50 ppm	20 ppm	50 ppm	50 ppm	180 mg/m3	40 ppm	50 ppm	20 ppm	500 ppm	1100 ppm	50 ppm	50 ppm
2	790 mg/m3	100 ppm	290 mg/m3	525 mg/m3	100 ppm	–	–	100 ppm	–	500 ppm	20000 mg/m3	350 mg/m3	100 ppm
3	80 ppm	100 ppm	100 ppm	100 ppm	100 ppm	440 mg/m3	50 ppm	100 ppm	50 ppm	100 ppm	900 ppm	100 ppm	100 ppm
4	20 ppm	25 ppm	20 ppm	20 ppm	20 ppm	20 ppm	–	25 ppm	25 ppm	50 ppm	700 ppm	5 ppm	20 ppm
5	10 mg/m3	5 mg/m3	1 mg/m3	5 mg/m3	5 mg/m3	–	3 mg/m3	–	–	–	–	–	–
6	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm	–	50 ppm	100 ppm	100 ppm	100 ppm	800 ppm	100 ppm	20 ppm
7	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

Biological Exposure Indices

ID	DETERMINANT	SAMPLING TIME	BEI	NOTATION
1	2,5-Hexanedion in urine	End of shift at end of workweek	0.4 mg/L	–
3	Methylhippuric acids in urine	End of shift	1.5 g/g creatinine	–
4	Butoxyacetic acid (BAA) in urine	End of shift	200 mg/g creatinine	–
6	Sum of mandelic acid and phenyl glyoxylic acid in urine	End of shift at end of workweek	0.7 g/g creatinine	Ns, Sq

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 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	> 68.3 °C (155.0 °F)	**Melting / Freezing Point**	> -95.0 °C (-139.0 °F)
Flash Point, Liquid	> -21.7 °C (-7.0 °F)		
Explosive Limits	1.00% to 7.50%	**Autoignition Temperature, Liquid**	104.4 °C (220.0 °F)
Flammability	NFPA Class IB Liquid	**Relative Density (H2O = 1)**	0.786 g/cc
Molecular Weight	Not Available	**Weight**	6.562 lbs/gal
Vapor Pressure	Not Available	**pH**	Not Available
Vapor Density	4.500 g/cc Maximum	**Evaporation Rate**	Not Available
Form	Liquid	**Partition Coefficient**	Not Available
Viscosity	Not Available	**Refractive Index**	Not Available
Odor Threshold	Not Available	**Heat of Combustion**	Not Available
Odor	Paint-like	**Water Solubility**	Not Available
Appearance / Color	Clear, Colorless	**Decomposition Temperature**	Not Available
Percent Volatile	75% Wt (82% Vol) Max	**VOC Content**	4.895 lbs/gal (586.51 g/L)
Percent VOC	75% Wt (82% Vol) Max	**HAP Content**	3.305 lbs/gal (396.007 g/L)
Solids/Non Volatile Content	26% Wt (19% Vol) Max	**Maximum Incremental Reactivity**	1.549 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	Bases, Chlorine, Chlorine Dioxide, Chlorosulfuric Acid, Dichlorohydrantion, Dinitrogen Tetroxide And Pentoxide, Fluorine, Nitric Acid, Perchloric And Permonosulfuric Acids, Potassium Chlorate
Decomposition Products	Oxides of Carbon, Peroxides 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	32290 mg/kg	rat	3295 mg/kg	rabbit	73680 ppm	4h	rat
2	–	–	500 mg/kg	rabbit	–	–	–
3	4300 mg/kg	rat	4500 mg/kg	rabbit	6700 mg/L	4h	rat
4	470 mg/kg	rat	220 mg/kg	rabbit	2211 mg/m3	4h	rat
5	>5000 mg/kg	rat	>2000 mg/kg	rabbit	–	–	–
6	4720 mg/kg	rat	15500 mg/kg	rabbit	4000 ppm	4h	rat
7	5000 mg/kg	rat	>3160 mg/kg	rabbit	18000 mg/m3	4h	rat

Skin Corrosion/Irritation	N-Hexane, Xylene, Butyl Cellosolve, 1, 2, 4-Trimethyl Benzene causes skin irritation.
Eye Damage/Irritation	Butyl Cellosolve, 1, 2, 4-Trimethyl Benzene causes serious eye irritation.
Respiratory Irritation	1, 2, 4-Trimethyl Benzene 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 — Butyl Cellosolve is listed as follows: ACGIH as A3 (confirmed animal carcinogen with unknown relevance to humans).

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

Reproductive Toxicity — N-Hexane is/are suspected of damaging fertility or the unborn child.

STOT-Single Exposure — N-Hexane may cause drowsiness or dizziness.

STOT-Repeated Exposure — N-Hexane may cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard — N-Hexane, Stoddard Solvent, Dearomatized Aliphatic Hydrocarbon may be fatal if swallowed and enters airways.

Information on the Likely Routes of Exposure

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

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Symptoms of Exposure — Abdominal Cramps, Bronchitis, Chemical Pneumonitis, Coma, Confusion, 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 — n-Hexane is toxic to the peripheral nerves, characterized by numbness, tingling, or pain in the extremities, progressively worsening of neuromuscular motor coordination (polyneuritis or polyneuropathy), and even partial paraylsis.

Stoddard Solvent when ingestion and subsequent aspiration into the lungs may cause pneunatocele (lung cavity) formation and chronic lung dysfunction.

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, Lumphoid System, Peripheral Nervous System, Respiratory System, Skin

Interactive Effects

Synergistic Effects — Xylene exposure to related solvents, such as benzene, toluene and ethanol slows the rate of clearance of from the body, thus enhancing its toxic effects.

The neurotoxic effects of n-hexane vapour can be enhanced by both methyl ethyl ketone (MEK) and lead acetate, but are decreased by toluene.

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	2.5 mg/L	96h	EC50	2.1 mg/L	48h	EC50	1079 mg/L	96h	–	–	–
3	LC50	26.7 mg/L	96h	LC50	14 mg/L	24h	–	–	–	–	–	–
4	LC50	1490 mg/L	96h	EC50	1720 mg/L	24h	LOEC	900 mg/L	7d	EC5	911 mg/L	48h
5	LC50	>1000 mg/L	96h	–	–	–	–	–	–	–	–	–
6	LC50	97.1 mg/L	96h	LC50	77 mg/L	24h	EC50	63 mg/L	3h	EC50	130 mg/L	48h
7	LC50	9.22 mg/L	96h	EC50	6.14 mg/L	48h	–	–	–	–	–	–

Ecological Data

ID	PERSISTENCE AND DEGRADABILITY				BIOACCUMULATIVE POTENTIAL		MOBILITY
	PERSISTENCE	BOD	COD	ThOD	Pow / Kow	BCF	Koc
1	–	–	–	3530 mg/g	3.9 low Pow	2.73 log BCF	2.17 log Koc
3	–	0.64 mg/L	–	2410 mg/g	3.271 log Pow	2.2557log BCF	3.156 log Koc
6	–	1780 mg/g	–	3170 mg/g	3.15 log Pow	1.18 log BCF	2.4 log Koc
7	–	–	–	–	3.714 log Pow	2.12 log BCF	3.4 log Koc

Other Adverse Effects *No additional information available.*

SECTION 13 - DISPOSAL CONSIDERATIONS

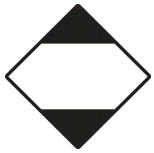
Waste Disposal *Product is suitable for burning in an enclosed, controlled burner for fuel value. Hazard characteristics and regulatory waste stream classification can change with product use and location. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, 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 along with 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*

Incineration Precautions *Not Available*

SECTION 14 - TRANSPORTATION INFORMATION

	UNITED STATES DOT	INTERNATIONAL AIR ICAO/IATA	INTERNATIONAL OCEAN IMDG	UNITED NATIONS ADR	CANADA TDG
ID Number	UN1993	UN1993	UN1993	UN1993	UN1993
Proper Shipping Name	Flammable Liquid, NOS (Contains ...), Limited Quantity	Flammable Liquid, NOS (Contains ...), Limited Quantity	Flammable Liquid, NOS (Contains ...), Limited Quantity	Flammable Liquid, NOS (Contains ...), Limited Quantity	Flammable Liquid, NOS (Contains ...), Limited Quantity
Hazard Class(es)	3	3	3	3	3
Packing Group	II	II	II	II	II
Environmental Hazards	No	No	No	No	No
Special Precautions	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
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 FIRE	SARA 311/312 REACTIVITY	SARA 311/312 ACUTE	SARA 311/312 CHRONIC	SARA 311/312 PRESSURE	CLEAN AIR ACT HAP	CLEAN AIR ACT SOCMI	CLEAN WATER ACT
1	Yes	–	–	5000	44%	Yes	–	Yes	Yes	–	Yes	Yes	–
2	Yes	–	–	–	–	–	–	Yes	–	–	–	–	–
3	Yes	–	U239	100	5%	Yes	–	Yes	–	–	Yes	Yes	100
4	Yes	–	–	–	–	–	–	Yes	–	–	–	–	–
5	Yes	–	–	–	–	–	–	Yes	–	–	–	–	–
6	Yes	–	–	1000	1%	Yes	–	Yes	–	–	Yes	Yes	1000 (PP)
7	Yes	–	–	–	>1%	Yes	–	Yes	–	–	–	–	–

United States - State Regulations

ID	CA P-65	DE RQ	MA RTK CODES	ME TYPE	ME RQ	MN RTK	MN AIR	MN WATER	NJ RTK	NY AIR	NY LAND	NY ACUTE	PA LISTED	WA PEL TWA	WI TABLE	WV TAP
1	–	5000	2,4,5,6	–	2000	ANO	Yes	–	Yes	1	1	–	Yes	50 ppm	A	–
2	–	–	2,4	–	–	ANO	–	–	–	–	–	–	Yes	100 ppm	A	–

ID	CA P-65	DE RQ	MA RTK CODES	ME TYPE	ME RQ	MN RTK	MN AIR	MN WATER	NJ RTK	NY AIR	NY LAND	NY ACUTE	PA LISTED	WA PEL TWA	WI TABLE	WV TAP
3	–	100	2,4 F8 F9	–	2000	ANO	Yes	–	Yes	1000	1	–	Yes-E	100 ppm	A	–
4	–	–	2,4,6 F8	–	–	AO	–	–	–	–	–	–	Yes	25 ppm	A	–
6	C	1000	2,4,5,6 F7 F8 F9	–	2000	AO	Yes	Yes	Yes	1000	1	–	Yes-E	100 ppm	A	–
7	–	100	F7 F9	–	1000	–	–	–	Yes	–	–	–	Yes-E	–	–	–

Canadian Regulations

	WHMIS CATEGORIES										CHEMICAL LISTS		
ID	A	B	C	D1A	D1B	D2A	D2B	D3	E	F	DSL	NDSL	NPRI
1	–	B2	–	–	–	X	X	–	–	–	Yes	–	1A, 5
2	–	B3	–	–	–	–	X	–	–	–	Yes	–	5
3	–	B2	–	–	–	X	X	–	–	–	Yes	–	1A, 5
4	–	B3	–	X	–	–	X	–	–	–	Yes	–	1A, 5
5	–	–	–	–	–	–	–	–	–	–	Yes	–	5
6	–	B2	–	–	–	X	X	–	–	–	Yes	–	1A
7	–	B3	–	–	–	–	–	–	–	–	Yes	–	1A, 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 *B2, D1A, D1B, 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; Xn; N; Repr. Cat. 3	H225, H361f ***, H304, H373 **, H315, H336, H411	GHS02, GHS08, GHS07, GHS09, Dgr	–
2	–	–	H304	–	–
3	–	Xn	H226, H332, H312, H315	GHS02, GHS07, Wng	–
4	–	Xn	H332, H312, H302, H319, H315	GHS07, Wng	–
5	–	Xn	H304	GHS08, Dgr	–
6	–	F; Xn	H225, H332	GHS02, GHS07, Dgr	–
7	–	Xn; N	H226, H332, H319, H335, H315, H411	GHS02, GHS07, GHS09, Wng	–

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

Pictograms

Risk Phrases *11-20/21/22-36/37/38-48/20-51/53-62-65-67*

Safety Phrases *2-16-24/25-29-33-36/37-46-61-62*

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
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

H411	Toxic to aquatic life with long lasting effects.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

CODE	SUPPLEMENTAL HAZARDS
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CODE	PRECAUTIONARY STATEMENTS
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
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 electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

CODE	RISK PHRASES
R 11	Highly flammable.
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 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 62	Possible risk of impaired fertility.
R 65	Harmful: may cause lung damage if swallowed.
R 67	Vapours may cause drowsiness and 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 29	Do not empty into drains.
S 33	Take precautionary measures against static discharges.
S 36/37	Wear suitable protective clothing and gloves.
S 46	If swallowed, seek medical advice immediately show container/label.
S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 62	If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

SDS Revision History

Revision 1, 05/02/2006, Original
Revision 2, 03/13/2013, Updated to GHS Version 4 Format.

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