

MATERIAL SAFETY DATA SHEET

IDENTITY: Semivolatile Phenols Stock Standard in Methylene chloride

SECTION I

Manufacturer: Cerilliant Corporation
811 Paloma Drive, Suite A
Round Rock, TX 78665

Emergency Telephone Number: (512) 238-9974
Date Prepared: July 9, 2012

SECTION II - HAZARDOUS COMPONENTS/IDENTITY INFORMATION

Hazardous Components	Synonyms	CAS Number	%
Methylene Chloride	Methane dichloride; Methylene bichloride; Methylene dichloride; Dichloromethane; DCM.	75-09-2	97.0
2-Chlorophenol	1-chloro-2-hydroxybenzene; 2-chlorophenol; 2-hydroxychlorobenzene; Chlorophenol, 2- ; chlorophenolate	95-57-8	0.2
4-Chloro-3-methylphenol	2-Chloro-5-hydroxytoluene; 3-Methyl-4-chlorophenol; p-Chloro-m-cresol; 4-chloro-3-methylphenol; 4-Chloro-3-cresol; 6-Chloro-3-hydroxytoluene; Aptal; Aptal, preventor CMK, raschitk; attafact; baktol; baktolan; candaseptic; Chlorocresol; Ottafect; parmatol; Parol; PCMC; peritonan; preventivo 1 cmk; Preventol CMK; raschit	59-50-7	0.2
2,4-Dichlorophenol	2,4-DCP; 4,6-Dichlorophenol; Dichlorophenol, 2,4- ; DCP	120-83-2	0.2
2,6-Dichlorophenol	2,6-DCP	87-65-0	0.2
2,4-Dimethylphenol	1-Hydroxy-2,4-Dimethylbenzene; 2,4-DMP; 2,4-Xylenol; m-Xylenol; 4,6-Dimethylphenol; 4-hydroxy-1,3-dimethylbenzene; 4-hydroxy-m-xylene; asym-o-xylenol; Dimethylphenol, 2,4-	105-67-9	0.2
2,4-Dinitrophenol	1-Hydroxy-2,4-Dinitrobenzene; 2,4-DNP; alpha-dinitrophenol; aldifen; Dinitrophenol, 2,4- ; Dinitrophenols; dinofan; fenoxyl; Fenoxyl Carbon N; maroxol-50; nitro kleenup; solfo black 2b supra; solfo black b; solfo black bb; solfo black g; solfo black sb; tertrosulfur black pb; tertrosulfur pbr	51-28-5	0.2
Dinoseb	2,4-Dinitro-6-sec-butylphenol; 2-sec-Butyl-4,6-dinitrophenol; 4,6-dinitro-2-(1-methyl-n-propyl)phenol; 4,6-Dinitro-2-sec-butylphenol; Basanite; Dinitrax; Dinitro; Dinitro-o-sec-butylphenol; Dinitro-3; Dinitrobutyl phenol; Dinitro General; Dinoseb Phenol; BNP 30; butaphene; Caldon; Chemox General & PE; Chemox PE; Chemsect; DNBP; DNOSBP; DNPB; DNSBP; Dow General; dow general weed killer; dow selective weed killer; Drexel Dynamite 3; Dynamite; Dynanap; Elgetol 318; F-ISO; Hel-Fire; Kiloseb; Klean Krop; nitropone; Nitropone C; phenotan; pnosbp; Premerge; Premerge Plus, with Dinitro; Sinox general; sparc; spurge; Subitex; unicorp dnbp; Unicrop DNBP; vertac dinitro weed killer; Vertac Dinitro Weed Killer 5; Vertac General and Selective Weed Killer; Vertac General Weed Killer; WSX-8365	88-85-7	0.2
Hexachlorophene	2,2'-Dihydroxy-3,3',5,5',6,6'-hexachlorodiphenylmethane; 2,2'-dihydroxy-3,5,6,3',5',6'-hexachlorodiphenylmethane; 2,2'-methylenebis[3,4,6-trichlorophenol]; Acigena; Almederm; AT-7; B32; Bis(2,3,5-trichloro-6-hydroxyphenyl)methane; bis(2-hydroxy-3,5,6-trichlorophenyl)methane; bis(3,5,6-trichloro-2-hydroxyphenyl)methane; Bilevon; Bivelon; Compound G-11; Cotofilm; Dermadex; Eleven; Exofene; Fomac; Fostril; G-11; Gamophene; Germa-medica; HCP; Hexabalm; Hexafen; Hexide; hexophene; Hexosan; methane, bis(2,3,5-trichloro-6-hydroxyphenyl); Methylenebis(3,4,6-trichlorophenol); Nabac; Neosept V; Phisodan; pHisohe; Ritosept; Septisol; Septofen; Steral; Steraskin; Surgi-Cen; Surofene; Tersaseptic; Trichlorophene; Turgex	70-30-4	0.2
2-Methyl-4,6-dinitrophenol	2,4-Dinitro-o-cresol; 2,4-Dinitro-6-methylphenol; 2-Methyl-4,6-dinitrophenol; 3,5-Dinitro-2-Hydroxytoluene; 3,5-Dinitro-6-hydroxy-toluene; 4,6-Dinitro-ortho-cresol; 4,6-Dinitro-2-Methylphenol; 4,6-DNOC; antinonin; Antinonnin; Dinitro-o-cresol; Dinitrol; Dinitrocresol; dinitrosol; Ditrosol; Dekrysil; Detal; DNC; DNOC; Effusan; Elgetol; Elgetol 30; Elgetox; K III; K IV; Lipan; Methyl-4,6-dinitrophenol; Nitrador; Prokarbol; Selinon; Sinox	534-52-1	0.2
2-Methylphenol	1-hydroxy-2-methylbenzene; o-cresylic acid; 2-Hydroxytoluene; o-Cresol; o-toluol; Methylphenol, 2- (o-cresol)	95-48-7	0.2

Hazardous Components	Synonyms	CAS Number	%
4-Methylphenol	1-hydroxy-4-methylbenzene; 1-methyl-4-hydroxybenzene; Para-cresylic acid; 4-Hydroxytoluene; p-methylhydroxybenzene; p-Cresol; p-tolyl alcohol; p-toluol; Methylphenol, 4- (p-cresol)	106-44-5	0.2
2-Nitrophenol	2-Hydroxynitrobenzene; ONP	88-75-5	0.2
4-Nitrophenol	4-Hydroxynitrobenzene; 4-Nitrophenol; p-Nitrophenol; 4-Notrophenol; mononitrophenol; Niphen; PNP	100-02-7	0.2
Pentachlorophenol	2,3,4,5,6-Pentachlorophenol; chem-tol; Chlorophen; cryptogil oil; dowcide 7; Dowicide 7; Dowicide EC-7; dow pentachlorophenol dp-2 antimicrobial; Dura-Treet; durotox; EP 30; Forepen; fungifen; glazd penta; grundier arbezol; lauxtoll; lauxtoll a; lioprem; Osmoplastic; Oz-88; PCP; penchlorol; Penta; pentachlorofenol; Pentachlorophenolate; pentachloro-Phenol; Pentachlorophenol; pentachlorophenol, dp-2; Pentacon; penta-kil; Penwar; peratox; permicide; permagard; permasan; permatox dp-2; permatox penta; permite; Pol-NU; priltox; santobrite; Santophen 20; Sinituho; term-i-trol;	87-86-5	0.2
Phenol	benzenol; Carbolic acid; Hydroxybenzene; monohydroxy benzene; monophenol; oxybenzene; Phenyl alcohol; Phenic Acid; Phenic; Phenol; Phenol; phenol alcohol; Phenol, liquid; Phenol, molten; Phenol, solid; phenyl hydrate; phenyl hydroxide; Phenylic acid; phenylic acid, phenyl hydroxide; phenylic alcohol	108-95-2	0.2
2,3,4,6-Tetrachlorophenol	N/A	58-90-2	0.2
2,4,5-Trichlorophenol	Collunosol; Dowicide 2; preventol i	95-95-4	0.2
2,4,6-Trichlorophenol	2,4,6 T; 2,4,6-TCP; 2,4,6-Trichloro-2-hydroxybenzene; 2,4,6-trichlorophenol; dowcide 2S; Dowicide 2S; Omali; Phenachlor; TCP	88-06-2	0.2

SECTION III – Hazard Identification

Harmful. Carcinogen. Target Organs: Blood, kidneys, heart, central nervous system, liver, lungs, pancreas.

SECTION IV – First Aid Measures

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration and transport to a medical facility.

SECTION V- Fire Fighting Measures

Flash Point: N/A

Flammable Limits

Method Used: N/A

LEL: 12%

UEL: 19%

(Methylene chloride)

Extinguishing Media: Dry chemical or carbon dioxide extinguisher

Special Fire Fighting Procedures: Wear SCBA and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: N/A

SECTION VI- Accidental Release Measures

Evacuate area. Remove all sources of ignition. Use inert absorbent to pick up all spilled material. Transfer to a suitable waste container with non-sparking tools. Wash spill site with appropriate cleaning agent to removal residual traces of spilled material.

SECTION VII- Handling and Storage

Handling: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged repeated exposure. Wash thoroughly after handling.

Storage: Refrigerate. Protect from light. Keep container closed. Keep away from ignition sources.

SECTION VIII-Exposure Controls/Personal Protection

As appropriate to quantity handled.

Ventilation - Local Exhaust: Use with forced ventilation.

General Mechanical: Normal laboratory air exchange.

Special: N/A

Respiratory Protection: NIOSH approved cartridge type respirator with organic vapor cartridges recommended.

Eye Protection: Safety glasses with side shields or chemical safety goggles.

Protective Gloves: Compatible chemical resistant gloves.

Other Protective Clothing or Equipment: Lab coat

Work/Hygienic Practices: Only experienced personnel should be allowed to handle this material.

Exposure Limits				
	OSHA PEL	ACGIH TLV	DFG MAK	Other Limits
Methylene Chloride	TWA 25 ppm STEL 125 ppm	TWA 50 ppm Animal carcinogen	Confirmed animal carcinogen with unknown relevance to humans 100 ppm (350 mg/m ³)	NIOSH REL Reduce to lowest feasible level.
2-Chlorophenol	N/A	N/A	N/A	N/A
4-Chloro-3-methylphenol	N/A	N/A	N/A	N/A
2,4-Dichlorophenol	N/A	N/A	N/A	N/A
2,6-Dichlorophenol	N/A	N/A	N/A	N/A
2,4-Dimethylphenol	N/A	N/A	N/A	N/A
2,4-Dinitrophenol	N/A	N/A	N/A	N/A
Dinoseb	N/A	N/A	N/A	N/A
Hexachlorophene	N/A	N/A	N/A	N/A
2-Methyl-4,6-dinitrophenol	Final TWA 0.2 mg/m ³ (skin)	TWA 0.2 mg/m ³ (skin)	0.2 mf/m ³	TWA 0.2 mg/m ³ (skin)
2-Methylphenol	TWA 5 ppm (skin)	TWA 5 ppm (skin)	N/A	TWA 10 mg/m ³
4-Methylphenol	TWA 5 ppm (skin)	TWA 5 ppm (skin)	N/A	TWA 10 mg/m ³
2-Nitrophenol	N/A	N/A	N/A	N/A
4-Nitrophenol	N/A	N/A	N/A	N/A
Pentachlorophenol	Final TWA 0.5 mg/m ³ (skin)	TWA 0.5 mg/m ³ (skin)	Animal Carcinogen Suspect Human Carcinogen	N/A
Phenol	TWA 5ppm (skin)	TWA 5ppm (skin)	Confirmed animal carcinogen with unknown relevance to humans	NIOSH REL TWA 20 mg/m ³ CL 60 mg/m ³ /15M
2,3,4,6-Tetrachlorophenol	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	N/A	N/A	5 ppm	N/A



SECTION X-Stability and Reactivity

SECTION XI-Toxicological Information

SECTION XII-Ecological Information

SECTION XIII-Disposal Considerations

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SECTION XIX- Transportation Information

DOT Proper Shipping Name: Methylene chloride UN #: 1593 Class: 6.1 Packing Group: III	IATA Proper Shipping Name: Methylene chloride UN #: 1593 Class: 6.1 Packing Group: III
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SECTION XV-Regulatory Information

EU Directives Classification

Symbol of Danger: Xn

Indication of Danger: Harmful

R: 45-22-68

Risk Statements:

May cause cancer. Harmful if swallowed. Possible risk of irreversible effects.

S: 23-24/25- 36/37-45-53

Safety Statements:

Do not breathe vapor. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves. Avoid exposure - obtain special instruction before use. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

California Prop. 65: WARNING! This product contains a chemical known to the State of California to cause cancer. [Methylene chloride, Pentachlorophenol, 2,4,6-Trichlorophenol]

California Prop. 65: WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. [Dinoseb]

SARA 313: Listed

SECTION XVI-Other Information

The information contained herein is believed to be accurate and is supplied in good faith. Cerilliant Corporation makes no warranty with respect to and assumes no legal responsibility for use of or reliance upon this information. Individuals receiving this data must exercise their own judgement in determining its suitability for a particular purpose.