

## Material Safety Data Sheet

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Product #: US-107N

Last Update: 3/28/2011

## Section I Product Identification

Name: Phenols Mixture

Solvent : methylene chloride (dichloromethane)

## Section II Composition / Information on Ingredients

Component	CAS#	% by Wt.	LD50	OSHA PEL	ACGIH TLV	RTECS #	Codes
methylene chloride (dichloromethane)	000075-09-2	98.34087	2136 mg/kg oral rat	25 ppm	50 ppm	PA8050000	DFGH
4-chloro-3-methylphenol	000059-50-7	0.15083	400 mg/kg oral rat	N/A	N/A	GO7100000	
2-chlorophenol	000095-57-8	0.15083	670 mg/kg oral rat	N/A	N/A	SK2625000	
2,4-dichlorophenol	000120-83-2	0.15083	580 mg/kg oral rat	N/A	N/A	SK8575000	G
2,4-dimethylphenol	000105-67-9	0.15083	3200 mg/kg oral rat	N/A	N/A	ZE5600000	G
2,4-dinitrophenol	000051-28-5	0.15083	30 mg/kg oral rat	N/A	N/A	SL2800000	G
2-methyl-4,6-dinitrophenol	000534-52-1	0.15083	10 mg/kg oral rat	0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	GO9625000	G
2-nitrophenol	000088-75-5	0.15083	334 mg/kg oral rat	N/A	N/A	SM2100000	G
4-nitrophenol	000100-02-7	0.15083	250 mg/kg oral rat	N/A	N/A	SM2275000	G

pentachlorophenol	000087-86-5	0.15083	50 mg/kg oral rat	N/A	0.02 ppm	SM6300000	DGH
phenol	000108-95-2	0.15083	414 mg/kg oral rat	5 ppm	5 ppm	SJ3325000	G
2,4,6-trichlorophenol	000088-06-2	0.15083	250 mg/kg oral rat	N/A	N/A	SN1575000	FGH

Codes: A-OSHA regulated carcinogen; B-IARC Group 1 carcinogen; C-IARC Group 2A carcinogen; D-IARC Group 2B carcinogen; E-NTP Group 1 carcinogen; F-NTP Group 2 carcinogen; G-SARA Title III compound; H-California Proposition 65 compound.

### Section III Hazards Identification

Contains carcinogen(s) or cancer suspect agent(s)

Toxic; irritant

All chemicals should be considered hazardous - direct physical contact should be avoided.

### Section IV First Aid Measures

Inhalation: If inhaled, remove to fresh air. Give oxygen, if necessary. Contact a physician.

Skin Contact: In case of skin contact, flush with copious amounts of water. Remove contaminated clothing. Contact a physician.

Eye Contact: In case of eye contact, flush with copious amounts of water, lifting eyelids occasionally. Contact a physician.

Ingestion: If ingested, contact poison center immediately for recommended procedure. Contact a physician.

### Section V Fire Fighting Measures

Fire and Explosion Hazard Data for Solvent

Fire Hazard: non-combustible

Extinguishing Media: Carbon dioxide, dry chemical powder, or water spray.

### Section VI Accidental Release Measures

Ventilate area of the leak or spill. Wear appropriate personal protective equipment as specified in Section VIII. A leaking bottle, vial, or ampule may be placed in a plastic bag, and normal disposal procedures followed. Take up spilled material with sand or other non-combustible absorbant material, and place in an appropriate container for later disposal. Flush spill area with water.

Section VII Handling and Storage

Store at Room Temperature (18-25°C)

Keep in a tightly closed container, and store in a corrosion proof area.

This product should only be used by persons trained in the safe handling of hazardous chemicals.

Section VIII Exposure Controls / Personal Protection

Ensure that there is adequate ventilation to prevent airborne levels from exceeding recommended exposure limits (see Section II). Use appropriate MSHA/NIOSH approved safety equipment.

Wear chemical goggles, face shield, gloves, and chemical resistant clothing, such as a laboratory coat and/or a rubber apron, to prevent contact with eyes, skin, and clothing.

Section IX Physical and Chemical Properties

Physical Data for Solvent

Melting Pt.: -96.7°C	Boiling Pt.: 39.8°C	Density: 1.326
Vapor Pressure: 350 mmHg @ 20°C	Vapor Density: 2.9	Water Solubility: insoluble
Appearance: colorless liquid	Odor: chloroform-like odor	Flash Point: none
Auto-Ignition Temperature: 1139°F	LEL: 15.5	UEL: 66.4

Section X Stability and Reactivity

Reactivity Data for Solvent

Stability: stable	Incompatibilities:	strong oxidizers caustics active metal powder
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Hazardous Decomposition Products: phosgene, HCl, CO

Hazardous Effects of Polymerization: none

Section XI Toxicological Information

See Section II for specific toxicological information for the ingredients of this product.

Section XII Ecological Information

No information is available.

Section XIII Disposal Considerations

Recycle, if possible. Any material which cannot be saved for recovery or recycling should be disposed of at an appropriate and approved waste disposal facility. Processing, use, and/or contamination of this product may change waste management requirements. Observe all applicable federal, state, and local environmental regulations concerning disposal.

Section XIV Transport Information

Shipment Type: Dichloromethane solution

UN Number: UN1593

Shipping Class: 6.1

Packing Group: III

Section XV Regulatory Information

Warning: This product contains chemicals known to the state of California to cause cancer.

EU Directives Classification

R: 40

Risk Statements: Limited evidence of a carcinogenic effect.

S: 23-24/25-36/37

Safety Statements: Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves.

Section XVI Other Information

The above information is believed to be correct, but does not purport to be all-inclusive. This data should be used only as a guide in handling this material. ULTRA Scientific, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

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