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Material Safety Data Sheet



Section 1. Chem	ical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	Phenol, Liquified, Neutralized, for Melecular Biology	- Catalog Number(s).	P1067
		CAS#	Mixture.
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not applicable.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Phenol; Water; Tromethamine
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Carbolic Acid, Liquified	IN CASE OF EMEDCENCY	
Chemical Name	Carbolic Acid, liquified CHEMTREC (24hr) 80		<u>EVIEKGENC1</u> 2 (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	Not applicable.		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Phenol 2) Water 3) Tromethamine		108-95-2 7732-18-5 77-86-1	5			85-100 0-15 <1
Toxicological Data on Ingredients	Phenol: ORAL (LD50):Acute: 317 mg/kg [Rat]. 270 mg/kg [Mouse].DERMAL (LD50):Acute: 630 mg/kg [Rabbit]. 669 mg/kg [Rat].Tromethamine: ORAL (LD50):Acute: 5900 mg/kg [Rat].					
Section 3. Hazards Identification						
Potential Acute Health Effects	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive, sensitizer, permeator). Slightly hazardous in case of eye contact (corrosive). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.					

Phenol, Liquified, N Biology	leutralized, for Molecular	Page Number: 2
Potential Chronic Health Effects	 CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or an classifiable for human.) by IARC [Phenol]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Phenol]. Mu yeast. [Phenol]. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organ prolonged contact with spray mist may produce chronic eye irritation and severe prolonged exposure to spray mist may produce respiratory tract irritation lead bronchial infection. Repeated exposure to a highly toxic material may produce get by an accumulation in one or many human organs. 	imal.) by ACGIH, 3 (Not utagenic for bacteria and/or ns damage. Repeated or skin irritation. Repeated or ding to frequent attacks of neral deterioration of health

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data Flammability of the Product May be combustible at high temperature. **Auto-Ignition Temperature** Not available. Flash Points The lowest known value is 79 degrees C (174.2 degrees F) (Phenol) Flammable Limits Not available. These products are carbon oxides (CO, CO2). **Products of Combustion** Flammable in presence of open flames and sparks, of heat. Fire Hazards in Presence of Various Substances Slightly flammable to flammable in presence of oxidizing materials, of metals. Explosion Hazards in Presence Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. of Various Substances Slightly explosive in presence of heat. SMALL FIRE: Lies DRV shaminal nowdar Eichtin Madia

and Instructions	LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	Combustible. Phenol + nitrides results in heat and flammable gas generation. Phenol + mineral oxdizing acids results in fire. Phenol + calcium hypochlorite is an exothermic reaction producing toxic fumes which may ignite. May be ignited by electrostatic discharge. Contact with metals may evlove flammable hydrogen gas.	

Phenol, Liquified, Neutralized, for Molecular Page Number: 3 Biology			
Special Remarks on Explosion Hazards	 Phenol + sodium nitrite causes explosion on heating. Peroxydisulfuric acid + phenol causes explosion. Peroxymonosulfuric acid + phenol can explode. Mixtures of air containing 3-10% Phenol are explosive. When heated, phenol evolves flammable vapors which will form explosive mixtures with air. Potential for an explosive reaction exists when phenol comes into contact with the following: formaldehyde; aluminum chloride + nitromethane (at 110 deg. C) (Phenol) 		
Section 6. Accidental	Release Measures		
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.		
Large Spill	Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.		
Section 7. Handling a	and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, metals, acids, alkalis.		
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). For short term storage keep refrigerated. Do not store above 8°C (46.4°F). For long term storage before t he seal is broken, keep frozen at -20 deg. C (-4 deg. F) or below. Store in amber-colored, light-resistant containers that are made of glass.		
Section 8. Exposure Controls/Personal Protection			
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.		
Personal Protection	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.		
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.		
Exposure Limits	PhenolTWA: 5 (ppm) from ACGIH (TLV) [United States] SKINTWA: 19 (mg/m³) from ACGIH (TLV) [United States] SKINTWA: 5 from NIOSH [United States]TWA: 19 (mg/m³) from NIOSH [United States]TWA: 5 (ppm) from OSHA (PEL) [United States]TWA: 19 (mg/m³) from OSHA (PEL) [United States]TWA: 5 (ppm) [Canada]TWA: 19 (mg/m³) [Canada]		
Consult local authorities for acceptable exposure limits.			
Section 9. Physical and Chemical Properties			
Physical state and appearance	Liquid.	Odor	Sharp, sweet, tangy, medicinal
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Not available	Color	Colorless to light pink
Boiling Point	The lowest known value is 100℃ (212年) (Water).		
Melting Point	Not available.		
Critical Temperature	Not available.		
Continued on Next	Page		

Phenol, Liquified, N Biology	eutralized, for Molecular	Page Number: 4
Specific Gravity	Weighted average: 1.05 (Water = 1)	
Vapor Pressure	The highest known value is 2.3 kPa (@ 20°C) (Water) .	
Vapor Density	The highest known value is 0.62 (Air = 1) (Water).	
Volatility	Not available.	
Odor Threshold	0.048 ppm	
Water/Oil Dist. Coeff.	Not available.	
Ionicity (in Water)	Not available.	
Dispersion Properties	See solubility in water, methanol, diethyl ether, acetone.	
Solubility	Easily soluble in methanol, diethyl ether. Soluble in cold water, acetone.	
Section 10. Stability	and Reactivity Data	
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Heat, ignition sources (flames, sparks), incompatible materials	
Incompatibility with various substances	Reactive with oxidizing agents, metals, acids, alkalis.	
Corrosivity	Extremely corrosive in presence of copper. Slightly corrosive in presence of stainless steel(304), of stainless steel(316). Non-corrosive in presence of glass, of aluminum.	
Special Remarks on Reactivity	Air and light sensitive. Prone to redden on exposure to light and air. Incompatible with aluminum chloride, aliphatic amines, amides, formaldehy peroxymonosulfuric acid, acetaldehyde, sodium nitrite, boron trifluoride diet isocyanates, nitrides, mineral oxidizing acids, calcium hypochlorite, halogens, alloys, lead, zinc, magnesium and their alloys, plastics, rubber, coatings, sodium r Phenol + isocyanates results in heat generation, and violent polymerization. Phenol + 1,3-butadiene and boron trifluoride diethyl ether complex results in intens Phenol + acetaldehyde resultes in violent condensation. (Phenol)	yde, peroxydisulfuirc acid, hyl ether + 1,3-butadiene, formaldehyde, metals and hitrate + trifluoroacetic acid. se exothermic reaction.
Special Remarks on Corrosivity	Minor corrosive effect on bronze. Severe corrosive effect on brass. (Phenol)	
Polymerization	Will not occur.	
Section 11. Toxicolo	gical Information	
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 292 mg/kg (Mouse) (Calculated value for the mixture). Acute dermal toxicity (LD50): 681 mg/kg (Rabbit) (Calculated value for the mixture	9).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or ar classifiable for human.) by IARC [Phenol]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Phenol]. Mutagenic [Phenol]. Yeast. [Phenol]. Contains material which may cause damage to the following organs: kidneys, liv (CNS).	nimal.) by ACGIH, 3 (Not utagenic for bacteria and/or ver, central nervous system
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive, sensitizer, permeator), of inhalation. Slightly hazardous in case of eye contact (corrosive).	
Special Remarks on Toxicity to Animals	Lowest Published Lethal Dose: LDL [Human] - Route: Oral; Dose: 140 mg/kg LDL [Infant] - Route: Oral; Dose: 10,000 mg/kg (Phenol)	
Special Remarks on Chronic Effects on Humans	Animal: passes through the placental barrier. May cause adverse reproductive (teratogenic) Embryotoxic and/or foetotoxic in animal. May affect genetic material	ve effects and birth defects I (mutagenic). (Phenol)

Phenol, Liquified, N	leutralized, for Molecular	Page Number: 5	
Phenol, Liquified, N Biology Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Corrosive! Skin: Causes severe irritation and can cause burns. The skin may turn wrinkled, and later gray-white or yellowish-brown and may be deeply e may occur at the sight of contact. It may be absorbed through the skin those of ingestion and inhalation. Harmful (moderately toxic) if it is abso be severe, but painless due to damage to nerve endings causing numbri- Eyes: Causes severe irritation and possible burns. May cause severe c Inhalation: May cause severe irritation of the upper respiratory tract with and possible coma. Aspiration may lead to pulmonary edema. It in (stomach pain, nausea, diarrhea, vomiting), and respiration (diffic asphixiation) and cause systemic effects similar to that of ingestion. Of sweating and pallor. Ingestion: Harmful if swallowed! Can cause digestive tract burns with n immediate and marked abdominal pain, immediate intense burning of the stains and areas of necrosis on the lips and in the mouth and esophi- severe and permanent damage to the digestive tract. May also affect loss), cardiovascular system (cardiac arrhythmias, circulatory collapse) system It may also affect behavior/nervous system (weakness, fat followed by headache, drowsiness, agitation, nervousness, insomr drunkeness, delirium, hallucinations, fainting, convulsions, unconscious include pallor, cyanosis, difficulty breathing, tachypnea, contracted or di ears. Advanced stages may cause collapse, unconsciousness, coma, failure. May also cause liver and kidney damage (inability to urinate tubular necrosis, renal failure), Note: Methemglobinemia may develop after exposure to Phenol. T discoloration of the skin due to deficient oxygenation of the blood). Chronic Potential Health Effects: Inhalation and Ingestion: Prolonged or repeated inhalation and ingestion	Page Number: 5 In white and opaque or dull gray, and proded and scarred. Black Gangrene and cause systemic effects similar to rbed through skin. Phenol burns may ess. orneal injury and blindness. In coughing, burns, breathing difficulty, may affect the gastrointestinal tract culty breathing, pulmonary edema, ther symptoms may include cyanosis, mausea, vomiting, salivation, diarrhea, e mouth and throat, white or brownish agus, swelling of throat. May cause metabolism (loss of appetite, weight a, and affect behavior/central nervous igue, CNS depression - excitement na, twitching, dizziness, spasticity, sness, coma). Other symptoms may lated pupils, dim vision, ringing in the and possible death due to respiratory , albuminuria, darkened urine, acute his can result in cyanosis (a bluish	
	acute inhalation and ingestion. It may also cause kidney(renal failure, myocardium), and liver damage (jaundice), degenerative changes in the in red and white blood cell count, anemia). (Phenol)	tubular necrosis), heart (necrosis of brain, and affect the blood (changes	
Section 12. Ecologie	cal Information		
Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. How may arise.	vever, long term degradation products	
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.		
Special Remarks on the Products of Biodegradation	Not available.		
Section 13. Disposal Considerations			
Waste Disposal	Waste must be disposed of in accordance with federal, stat control regulations.	te and local environmental	
Section 14. Transpo	ort Information		
DOT Classification	CLASS 6.1: Poisonous material.		
Identification	UNNA: 2821 : Phenol solution PG: II		
Special Provisions for	Not available.		

Transport

DOT (Pictograms)

POISON 6

Section 15. Other Regulatory Information and Pictograms Federal and State Regulations New York release reporting list: Phenol Minnesota: Phenol Minnesota: Phenol New Jersey spill list: Phenol Louisiana spill reporting: Phenol TSCA 8(i) Inventory: Phenol TSCA 8(i) INVENTOR: Phenol TSCA 8(i) INR: Phenol TSCA 8(i) INR: Phenol TSCA 8(i) URR: Phenol Total to cause cancer which would require a warning under the State of California 1 found to cause birth defects which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California 1 found to cause birth defects which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California 1 found to cause birth defects which would require a warning under the statute: No products were found. CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-1A: Material causing immediate and seri	enol, Liquified, N blogy
Federal and State Regulations New York release reporting list: Phenol Minnesota: Phenol Minnesota: Phenol New Jersey: Phenol New Jersey: Phenol New Jersey: Phenol New Jersey: Phenol TSCA 8(i) Inventory: Phenol; Water; Tromethamine TSCA 4(a) proposed test rules: Phenol TSCA 8(i) Hand 5 data reporting: Phenol: effective: 6/1/87; sunset: 6/01/97 SARA 302/30/4/311/312 extremely hazardous substances: Phenol SARA 313 toxic chemical notification and release reporting: Phenol 92.5% CERCLA: Hazardous substances:: Phenol: 1000 lbs. (453.6 kg); Cantornal Proposition 65 Warnings California prop. 65: This product contains the following ingredients for which the State of California found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California found to cause birth defects which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California found to cause birth defects which would require a warning under the statute: No products were four Other Regulations Other Classifications WHMIS (Canada) NEX 24/25- Toxic in contact with skin and if swallowed. R34- Causes burns. S24/25- Avoid contact with skin and eyes. S24/25- Avoid contact with skin and eyes. S28- After contact with skin, wash immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39. Wears suitable protective clothing gloves and eyeface protection. S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). HMIIS (U.S.A.) Matimal 30 National Fire Protection Execution 01 for Cel unwell <td< th=""><th>tion 15. Other Re</th></td<>	tion 15. Other Re
California California prop. 65: This product contains the following ingredients for which the State of California I found to cause cancer which would require a warning under the statute: No products were found. Warnings California prop. 65: This product contains the following ingredients for which the State of California I found to cause birth defects which would require a warning under the statute: No products were fourd. Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). Other Classifications WHMIS (Canada) CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS E: Corrosive liquid. DSCL (EEC) DSCL (EEC) R24/25- Toxic in contact with skin and eyes. S26- In case of contact with skin and eyes. R34- Causes burns. R34- Causes burns. S24/25- Avoid contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing igloves and eye/face protection. S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). HMIIS (U.S.A.) Health Hazard Mational Fire Protection	l and State tions
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Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). Other Classifications WHMIS (Canada) CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS E: Corrosive liquid. DSCL (EEC) R24/25- Toxic in contact with skin and if swallowed. R34- Causes burns. S24/25- Avoid contact with skin and eyes, sinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing gloves and eye/face protection. S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). HMIIS (U.S.A.) Health Hazard Immediately and the standard (U.S.A.) National Fire Protection Accountion (U.S.A.) Flammability	
Other Classifications WHMIS (Canada) CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS E: Corrosive liquid. DSCL (EEC) R24/25- Toxic in contact with skin and if swallowed. R34- Causes burns. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing gloves and eye/face protection. S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). HMIS (U.S.A.) Health Hazard Sim Hazard National Fire Protection Association (U.S.A.) Fianmability	Regulations
DSCL (EEC) R24/25- Toxic in contact with skin and if swallowed. S24/25- Avoid contact with skin and eyes. R34- Causes burns. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing gloves and eye/face protection. S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). HMIS (U.S.A.) Health Hazard 3 National Fire Protection Flammability	Classifications
HMIS (U.S.A.) Health Hazard 3 National Fire Protection Association (U.S.A.)	
Reactivity 0 Personal Protection Association (0.5.A.) Health Reactivity Specific hazard	S (U.S.A.)
WHMIS (Canada) (Pictograms)	MIS (Canada) ograms)
DSCL (Europe) (Pictograms)	L (Europe) ograms)
TDG (Canada) (Pictograms)	(Canada) ograms)
Continued on Next Page	ontinued on New

Phenol, Liquified, Neutralized, for Molecular Biology		Page Number: 7
ADR (Europe) (Pictograms)		
Protective Equipment	Gloves.	
	Full suit.	
	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.	
	Face shield.	

Section 16. Other Information				
MSDS Code	P3478			
References	Not available.			
Other Special Considerations	Major Uses: General disinfectant in solution for toilets, stables, cesspools, floors, drains, etc.; manufacture of colorless or light-colored artifical resins; reagent in chemical analysis; chemical intermediate; in germicidal paints and slimicides.			
Validated by Sonia Owen on 8/7/2012.		Verified by Sonia Owen. Printed 8/7/2012.		
CALL (310) 516-800)0			

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.