


**SECTION 1: PRODUCT IDENTIFICATION**

<b>PRODUCT NAME</b>	<b>PHENOL, USP (Liquefied)</b>
<b>PRODUCT CODE</b>	<b>1938</b>
<b>SUPPLIER</b>	<b>MEDISCA Inc.</b> Tel.: 1.800.932.1039   Fax.: 1.855.850.5855 626 Tom Miller Road, Plattsburgh, NY, 12901 <b>MEDISCA Pharmaceutique Inc.</b> Tel.: 1.800.665.6334   Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 <b>MEDISCA Australia PTY LTD</b> Tel.: 1.300.786.392   Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
<b>EMERGENCY PHONE</b>	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670
<b>RECOMMENDED USES</b>	Pharmaceutical Manufacturing
<b>RESTRICTIONS ON USE</b>	Not applicable

**SECTION 2: HAZARDS IDENTIFICATION**

<b>GHS CLASSIFICATION</b>	Acute Toxicity - Oral (Category 4) Acute Toxicity - Dermal (Category 3) Flammable Liquid (Category 4) Skin Corrosion (Category 1A); Eye Damage (Category 1) Specific Target Organ Toxicity - Repeated Exposure (Category 1) Acute Aquatic Toxicity (Category 2) Germ Cell Mutagenicity (Category 2) Acute Toxicity - Inhalation (Category 3)
<b>PICTOGRAM</b>	
<b>SIGNAL WORD</b>	Danger
<b>HAZARD STATEMENT(S)</b>	Harmful if swallowed. Toxic in contact with skin. Combustible liquid. Causes severe skin burns and eye damage. Causes serious eye damage. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Suspected of causing genetic defects. Toxic if inhaled. Corrosive to the respiratory tract.
<b>ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS</b>	

**PRECAUTIONARY STATEMENT(S)**
**Prevention**

Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing.

Keep away from heat, sparks, open flames and other ignition sources. - No smoking.  
Wear protective gloves, protective clothing, eye and face protection.  
Do not breathe dust or mist. Wash thoroughly after handling.  
Wear protective gloves, protective clothing, eye and face protection.  
Wear eye and face protection.  
Wash hands thoroughly after handling. Do not touch eyes.  
Do not breathe dust/fume/gas/mist/ vapors/spray.  
Do not eat, drink or smoke when using this product.

Avoid release to the environment.  
Obtain, read and follow all special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye and face protection.  
Avoid breathing dust/fume/gas/mist/ vapors/spray.  
Use only outdoors or in a well-ventilated area.

**Response**

IF SWALLOWED: Immediately call a poison center. Get medical help.  
Rinse mouth.  
IF ON SKIN (HAIR): Wash with plenty of water; Get emergency help immediately.  
Immediately call a poison center or medical professional; Take off immediately all contaminated clothing and wash it before reuse.  
IN CASE OF FIRE: Refer to Section 5.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Immediately rinse skin with water for several minutes. Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately; Immediately call a poison center or medical professional;  
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help; Immediately call a poison center or medical professional.  
Get medical help, if you feel unwell.  
  
IF EXPOSED OR CONCERNED: Get medical advice.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Get emergency medical help immediately.

**Storage**

Store locked up.  
Store in a well-ventilated place. Keep cool.  
Not applicable.  
Store in a well-ventilated place. Keep container tightly closed.

**Disposal**
**HMIS CLASSIFICATION**
**Health Hazard**

4

**Flammability**

2

**Reactivity**

0

**Personal Protection**

K

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**CHEMICAL NAME**

Liquefied Phenol

**BOTANICAL NAME**

Not applicable

**SYNONYM**

Not applicable

**CHEMICAL FORMULA**

Not applicable

CHEMICAL FAMILY	Phenol
CAS NUMBER	108-95-2 (General)
ALTERNATE CAS NUMBER	217182-78-0 (Hydrated Phenol)
MOLECULAR WEIGHT	Not applicable
COMPOSITION	

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
PHENOL, USP (Liquefied)	108-95-2	203-632-7	>89.0*

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

NOTES	*Liquefied Phenol is Phenol maintained in a liquid condition by the presence of about 10% water. It contains not less than 89.0% by weight of C <sub>6</sub> H <sub>6</sub> O. It may contain a suitable stabilizer.
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## SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	In case of eye contact, promptly flush the eyes with copious amounts of water for 15 minutes (lifting upper and lower lids occasionally) and obtain medical attention.
IN CASE OF SKIN CONTACT	Skin contact with phenol requires immediate flushing of the contaminated area with soap and water at a sink or emergency shower for a good 15 minutes. Remove contaminated clothing. Obtain medical attention.
IF SWALLOWED	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
MEDICAL ATTENTION AND SPECIAL TREATMENT	Get emergency medical help.
SYMPTOMS CAUSED BY EXPOSURE	Good work practices can help reduce hazardous exposures. Not expected to present a significant hazard under anticipated conditions of normal use.

## SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Not applicable
FLAMMABLE PROPERTIES	Combustible liquid.
HAZARDOUS COMBUSTION PRODUCTS	Vapor can be explosive if product is heated above its flash point (79 °C, 174.2 °F).
SUITABLE & UNSUITABLE EXTINGUISHING MEDIA	<b>Small fire:</b> dry chemical, CO <sub>2</sub> or water spray. <b>Large fire:</b> dry chemical, CO <sub>2</sub> , alcohol resistant foam or water spray. Do not get water inside containers. Keep unignited containers cool with water. Contaminated fire control waters may be corrosive, and should be diked or collected in ponds if possible, and disposed of properly.
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
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**METHODS & MATERIAL FOR CONTAINMENT**

Small liquid spills of 50 ml or less may be absorbed on paper toweling, vermiculite, or other absorbent material and placed in a sealed metal container or double plastic bags for proper disposal as hazardous waste. Be sure to wear gloves and other personal protective equipment when cleaning up small phenol spills.

**CLEANUP PROCEDURE**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

**REFERENCE TO OTHER SECTIONS**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## SECTION 7: HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING**

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling

**CONDITIONS FOR SAFE STORAGE**

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

**STORAGE CONDITIONS**

Store in original container, tightly sealed, protected from direct sunlight and moisture.

The freezing point of liquefied phenol 90% is 12.6°C (55°F). Product is not affected by cycling freezing and thawing conditions as long as label directions are followed. Phenol can be left at room temperature or in a water bath at 40°C to thaw. (Vent container before heating in well ventilated area, and do not heat above 60°C (140°F). Gently stir or tumble the container to ensure it is homogenous.

## SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: PHENOL CAS #: 108-95-2

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>				
OSHA	USA	5(1)	19(1)	N/L	N/L	N/L	N/L	N/A	(1) Skin
ACGIH	USA	5	N/L	N/L	N/L	N/L	N/L	N/A	Skin*
NIOSH	USA	5(1)	19(1)	15.6 (1)(2)	60 (1)(2)	N/L	N/L	N/A	(1) Skin (2) Ceiling limit value (15 min)
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	1(1)	4(1)	N/L	N/L	N/L	N/L	N/A	(1) Skin
HSE	UK	2(1)	7.8(1)	4(1) (2)	16(1) (2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value
GESTIS	Austria	2(1)	8(1)	4(1) (2)	16(1) (2)	N/L	N/L	N/A	(1) Skin (2) 15 minutes average value

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

**EXPOSURE GUIDELINES**

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m<sup>3</sup>

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.

**SPECIFIC ENGINEERING CONTROLS**

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

**BIOLOGICAL MONITORING**

Not available

**CONTROL BANDING**

Not available

**NOTES**

\*Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**PHYSICAL STATE**

Liquid

**DESCRIPTION**

Colorless to pink liquid, which may develop a red tint upon exposure to air or light. Has a characteristic, somewhat aromatic odor.

**SOLUBILITY**

Miscible with alcohol, with ether, and with glycerin. A mixture of equal volumes of Liquefied Phenol and glycerin is miscible with water.

**ODOR**

Somewhat aromatic odor

**FLAMMABILITY**

Combustible liquid.

**AUTO-IGNITION TEMPERATURE**

715 °C (1319 °F)

**BOILING POINT**

>100 °C, >212 °F

**DECOMPOSITION TEMPERATURE**

Not available

**EVAPORATION RATE**

< 0.01 (butyl acetate = 1)

**EXPLOSIVE LIMIT**

Not available

**FLASH POINT**

79 °C, 174,2 °F (Closed Cup)

**log P (OCTANOL-WATER)**

1.46

**LOWER FLAMMABLE/EXPLOSIVE LIMIT(S)**

> 1.3 %

**MELTING/FREEZING POINT**

12.6 °C, 55 °F

**PARTICLE CHARACTERISTICS**

Not available

**OXIDIZING PROPERTY**

Not available

**pH**

6

**RELATIVE DENSITY (WATER = 1)**

Not available

**SPECIFIC GRAVITY**

1.065

**UPPER FLAMMABLE/EXPLOSIVE LIMIT(S)**

8.6

**VAPOR DENSITY (AIR = 1)**

3.24 (phenol)

**VAPOR PRESSURE**

0.35 mmHg

**VISCOSITY**

Not available

The physical data presented above are typical values and should not be construed as a specification.

**SECTION 10: STABILITY AND REACTIVITY**
**REACTIVITY**

Not established

**CHEMICAL STABILITY**

Stable under recommended storage conditions.

When heated, phenol will produce flammable vapors that are highly toxic (at just a few parts per million) and explosive (at concentrations of 3% to 10% in air).

<b>INCOMPATIBLE MATERIALS</b>	Oxidizers, aluminum chloride and nitrobenzene, calcium hypochlorite, butadiene, halogens, formaldehyde, mineral oxidizing acids, isocyanates, sodium nitrite and many other materials. Hot liquid phenol will attack aluminum, magnesium, lead, and zinc metals
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur
<b>POSSIBILITY OF HAZARDOUS REACTION</b>	Above 79°C explosive vapour/air mixtures may be formed.
<b>CONDITIONS TO AVOID</b>	Moisture, sunlight and extreme temperatures

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY</b>	<b>PHENOL:</b> Oral: Rat: LD50: (mg/kg): 317 Dermal: Rabbit LD50: (mg/kg): 630 Inhalation: Rat: LC50: (mg/L/4hr): Not available
<b>SKIN CORROSION/IRRITATION</b>	Corrosive, pain, numbness, whitening, and burns occur unless promptly removed.
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	Causes severe eye irritation, with possible damage and blindness.
<b>RESPIRATORY SENSITIZATION</b>	Based on available data, the classification criteria are not met.
<b>SKIN SENSITIZATION</b>	Based on available data, the classification criteria are not met.
<b>GERM CELL MUTAGENICITY</b>	Suspected of causing genetic defects.
<b>CARCINOGENICITY</b>	<b>OSHA</b> PHENOL is not listed. <b>NTP</b> PHENOL is not listed. <b>IARC</b> PHENOL is listed in group 3 (not classifiable as to its carcinogenicity to humans). <b>California Proposition 65</b> This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
<b>ADDITIONAL CARCINOGENICITY INFORMATION</b>	Based on available data, the classification criteria are not met.
<b>REPRODUCTIVE TOXICITY</b>	Based on available data, the classification criteria are not met.
<b>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE</b>	Based on available data, the classification criteria are not met.
<b>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE</b>	Repeated contact affects central nervous system, skin, liver, and kidneys.
<b>ASPIRATION HAZARDS</b>	Based on available data, the classification criteria are not met.

**SIGNS AND SYMPTOMS OF EXPOSURE****ROUTES OF EXPOSURE:**

Oral, Dermal, Inhalation, Eye contact

**EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:**

Not available

**DELAYED HEALTH EFFECT FROM EXPOSURE:**

Not available

**Symptoms related to the physical, chemical and toxicological characteristics:**

Burning in mouth, throat, and/or stomach. Cough. Gastrointestinal disturbances. Loss of appetite. Dark urine. Rapid breathing. Difficulty breathing. Headache. Fast heartbeat. Excitement. Skin discoloration. Weight gain. Muscle pain. Insomnia. Blue or pale lips, fingernails, and skin. Stupor. Seizures.

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Circulatory collapse, tachypnea, paralysis, Convulsions, Coma., necrosis of mouth and G.I. Tract, Jaundice, respiratory failure, cardiac arrest.

**POTENTIAL HEALTH EFFECTS****Inhalation**

Toxic if inhaled. Causes respiratory tract irritation and possible corrosion.

**Ingestion**

Harmful if swallowed. Irritating and corrosive to mouth and throat. Ingestion of as little as 1 gram of Phenol can be fatal to humans.

**Skin**

Toxic if in contact with skin. Highly corrosive to the skin and readily absorbed through it, whereupon it can affect the central nervous system and cause damage to the liver and kidneys. Because it has a local anesthetic effect, little or no pain may be felt on initial contact. Skin in contact with phenol will generally turn white; later, severe burns may develop. Phenol is rapidly absorbed through the skin, and toxic or even fatal amounts can be absorbed through relatively small areas.

**Eyes**

Can cause severe damage to eyes including blindness.

**SECTION 12: ECOLOGICAL INFORMATION****ECOTOXICITY****PHENOL:**

EC50: 48 Hr: Crustacea: Daphnia obtusa: (mg/L): 4.7 - 6.4

LC50: 96 Hr: Fish: Oncorhynchus mykiss: (mg/L): 7.7

EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available

**PERSISTENCE AND DEGRADABILITY**

Readily biodegradable

**BIOACCUMULATIVE POTENTIAL**

Low

Log Pow: 1.46

**MOBILITY IN SOIL**

Miscible in water

**OTHER ADVERSE EFFECTS**

Toxic to aquatic organisms.

This product is not intended to be released into the environment

**SECTION 13: DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

**SECTION 14: TRANSPORT INFORMATION****UN PROPER SHIPPING NAME**

PHENOL SOLUTION

**UN NUMBER** 2821

**CLASS** 6.1

**PACKING GROUP** II

**AUSTRALIA**
**HAZCHEM** 2X

**EU**
**TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE** Not Listed

**ENVIRONMENTAL HAZARDS** Not available

**SPECIAL SHIPPING INFORMATION** Not applicable

**SECTION 15: REGULATORY INFORMATION**
**UNITED STATES REGULATIONS**

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Right-to-know			California Prop 65
			Appendix A	Appendix B	Pennsylvania	New Jersey	Massachusetts	
PHENOL 108-95-2	X	X	X	X	X	X	X	N/L

N/L = Not Listed; X = Listed

**AUSTRALIAN REGULATIONS**

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemicals
PHENOL 108-95-2	N/L	Listed as Schedule 2	N/L	Listed	N/L	N/L

N/L = Not Listed

**EU REGULATIONS**

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
PHENOL 108-95-2	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

**SUBJECT TO INTERNATIONAL AGREEMENT** Not applicable

**SECTION 16: OTHER INFORMATION**
**REFERENCES**

Available upon request

**ABBREVIATIONS AND ACRONYMS**

**ACGIH** - American Conference of Governmental Industrial Hygienists; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **CAESAR** – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; **CAS** – Chemical Abstract Service; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **EC50** – Effective Concentration, 50%; **EPA** – Environmental Protection Agency; **GHS** – Global Harmonized System; **HMIS** – Hazardous Materials Information System; **HSE** – Health and Safety Executive; **HSIS** – Hazardous Substances Information System; **IARC** – International Agency for Research on Cancer; **IDLH** - Immediately Dangerous to Life or Health; **IRFMN** – Ready Biodegradability Model; **ISS** – Istituto Superiore Sanità; **LC50** – Lethal Concentration, 50%; **LD50** – Lethal Dose, 50%; **MSHA** - Mine Safety and Health Administration; **NIOSH** – National Institute for Occupational Safety and Health; **NTP** – National Toxicology Program; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **QSAR** – Quantitative Structure-activity relationship; **REL** - Recommended Exposure Limit; **SARA** – Superfund Amendments and Reauthorization Act; **STEL** – Short Term Exposure Limit; **TLV** – Threshold Limit Value; **TWA** – Time Weighted Average; **WHMIS** – Workplace Hazardous Materials Information System

**LAST REVISION**

10/2025

**SUPERSEDES**

07/2023

For a list of changes to the SDS since the last version, please communicate with MEDISCA at [www.medisca.com](http://www.medisca.com)

**DISCLAIMER**

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

**SUPPLEMENTARY INFORMATION**

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.