According to OSHA Global Harmonization Standard



Phenol Solution

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Phenol Solution
CAS 000108-95-2 (Phenol)

007732-18-5 (Water)

REACH registration No.: 01-2119471329-32-0002 (U.S.A.)

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use Phenol is

Phenol is an important raw material of the chemical industry. It is used for manufacturing of Bisphenol A, Phenol-Formaldehyde-Resins and Caprolactam. Furthermore it is used for manufacturing of Alkyl Phenols, Salicylic Acid and

Nitrophenols.

Identified uses 1. Manufacture, processing and distribution of substances and mixtures *

2. Use in laboratories

3. Uses in coatings

4. Use as binders and release agents5. Rubber production and processing

6. Polymer manufacturing7. Polymer processing

8. Phenolic resin processing (uses of downstream users of phenolic resins)

* Examples for processing:

Use as an intermediate, use as a monomer etc., use as a

solvent, use for the manufacturing of resins.

1.3 Details of the supplier of the safety data sheet

Company name: INEOS Phenol

Street Address: 7770 Rangeline Road
City/State/postal code: Theodore, Alabama 36582
World Wide Web: www.ineosphenol.com

Telephone: 251-443-3000 Fax: 251-443-3001

1.4 Emergency Telephone Numbers

24 Hour Emergency Number: 800-424-9300 24 Hour CHEMTREC Number: 800-424-9300 (USA)

703-527-3887 (International)

24 Hour Quantum Murray Number: 647-329-1054 (Canada)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Global Harmonization System:

Physical Hazards: Flammable Liquid: Category 4 (Flash point >60°C and ≤ 93°C)

Health Hazards:

Acute Toxicity: Oral – Category 3 (see section 11)

Dermal – Category 3 (see section 11) Inhalation – Category 3 (see section 11)

Skin Corrosion/Irritation: Corrosive 1B (causes severe skin burns and eye damage)

Mutagenicity: Category 2 (Suspected of causing genetic damage)

Specific Target Organ Toxicity - Repeated Exposure: Category 2 (may cause damage to

organs through prolonged or repeated exposure)

Environmental Hazards:

Acute Toxicity: Category 2 - short term (fish)

See section 12 for additional information

Long Term Toxicity: Category Chronic 1 (fish)

See section 12 for additional information

2.2 Label elements

Labeling (CLP)







Signal word	Danger			
Hazard statements	H227	Combustible liquid		
	H301	Toxic if swallowed.		
	H311	Toxic in contact with skin.		
	H314	Causes severe skin burns and eye damage.		
	H331	Toxic if inhaled.		
	H341	Suspected of causing genetic defects.		
	H373	May cause damage to organs through prolonged or repeated exposure.		
	H401	Hazardous to the aquatic environment, acute hazard		
Precautions	P210	Keep away from flames and hot surfaces. No smoking		
	P260	Do not breathe dust.		
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.		
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove		
		contact lenses, if present and easy to do. Continue rinsing.		
	P309+P311	IF exposed or if concerned: Call a POISON CENTER or doctor/physician.		
	P273	Avoid release to the environment.		

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SECTION 3: Composition/information on ingredients

3.1 Substance (Mixture)

	Substance 1 - Phenol	Substance 2 - Water			
Chemical characterization (substance):	C6 H6 O = C6 H5 OH	H20			
(cabotanee).	Phenol, Hydrobenzene	Water			
% (Wt/Wt)	85-95	5-15			
CAS-Number	108-95-2	7732-18-5	7732-18-5		
EINECS-Number:	203-632-7	231-791-2	231-791-2		
RTECS-Number	SJ3325000	ZC0110000	ZC0110000		
EU-number:	604-001-00-2				
Additional information:	Keep in cool, well ventilated place. Storage temperature below 60°C				

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: First-aid provider: Pay attention to self-protection! Protect yourself from exposure.

Patient: Move into fresh air and keep victim calm. Remove contaminated clothing. If

patient is at risk of losing consciousness, position and transport on their side.

After inhalation: Provide for adequate fresh air. If breathing becomes irregular or difficult, give

oxygen. If unconscious, evaluate artificial respiration immediately. Get immediate

medical attention.

In case of skin contact: Remove all contaminated clothing. Flush with water followed by polyethylene glycol and/or

large quantities of water. Immediately get medical attention.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids

apart.

Subsequently seek the immediate medical attention.

After ingestion: Rinse mouth immediately and drink plenty of water. Do not induce vomiting.

Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

After contact with skin:

Rapid skin absorption is the main danger of phenol poisoning at the workplace with paralysis of the central nervous system and heart arrhythmias (with lethal

consequences in severe cases) as well as liver and kidney damage.

4.3 Indication of any immediate medical attention and special treatment needed

Symptoms and dangers:

No specific antidote therapy for phenol poisoning is known. Therefore it is important to remove the phenol completely from the body surface and out of the body as quickly as possible, and in the case of inhalation prophylactic treatment to prevent pulmonary edema is important. Phenol causes strong caustic burns of the skin and mucous membranes due to its protein degenerating action. The skin initially discolors white, later red. After initial pain, local anesthesia appears. Absorption poisoning by large amounts of phenol is possible also through small affected skin regions and quickly leads to paralysis of the central nervous system as well as strong depression of the body temperature. Inhaling phenol vapors can lead to damage of the bronchial system and pulmonary edema. Systemic damage to kidneys, liver and heart as well as neuropsychiatric disturbances are produced.

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Treatment:

Thoroughly clean the wetted skin areas with water and if possible, apply polyethylene glycol (e.g. polyethylene glycol 300) intermittently with water washes. In case of eye contact, rinse copiously with water, in case of burns rinse continuously with water and seek medical attention. In case of inhalation, to prevent pulmonary edema, initiate inhalation cortisone therapy as early as possible (e.g. every 10 minutes 5 strokes of a cortisone containing aerosol dosing spray); administer codeine against dry coughing. In case of pulmonary edema, provide systemic administration of cortisone. If swallowed, gastric lavage after intubation activated charcoal, saline laxative.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, alcohol resistant foam, carbon dioxide, water fog

Extinguishing media that must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Combustible liquid with vapors that is heavier than air. Vapors will spread at floor level which can travel to source of ignition and flashback.

Containers can build pressure if exposed to heat (fire). Cool with water spray. In case of fire, carbon monoxide and carbon dioxide will be liberated.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residuals and contaminated extinguishing water must be disposed of in accordance with existing regulations of the local authorities.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Keep upwind.

Do not breathe vapors. Do not breathe dust. Avoid contact with the substance. Wear suitable protective clothing. Provide adequate ventilation.

Leaks may be repaired only with full protection (tightly closing chemical protection clothing, respirator equipment independent of the ambient air).

6.2 Environmental precautions

Do not allow to penetrate into soil, bodies of water or drains.

Danger to drinking water when soaking into the soil or waters. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Allow the leaked product to solidify if this is possible without endangering people.

Take up mechanically, placing in appropriate containers for disposal.

Phenol, liquid: Collect spillage. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Collect the rinsing water when cleaning-down contaminated equipment and plant

components

(to prevent phenol from escaping into deep soil

layers).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling Execute works under fume hood. Do not inhale substance.

Avoid contact with skin, eyes, and clothing.

The material is to be handled with extreme

caution. Requires good ventilation.

Welding operations are permitted only under supervision.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Hints on joint storage

Keep container tightly closed.

Storage temperature:

Below 60 °C

Keep container in a well-ventilated place. Protect from light.

Material: steel or Refined steel.

Keep locked up. Only trained personnel may be allowed to enter storage area.

Do not store together with food. Do not store together with: Solvent, aluminum,

aldehydes, halogens, hydrogen peroxide, oxidizing agents, strong acids, strong bases, formaldehyde, nitrites, nitrates, halogenated, peroxide compounds.

Further details: Reserved for industrial and professional use.

7.3 Specific end use(s)

Reserved for industrial and professional use.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters Phenol

 Type
 Limit
 value

 OSHA:
 TWA/PEL
 5 ppm or 19 mg/m³ (skin)

 ACGIH
 TLV
 5 ppm or 19 mg/m³ (skin)

 NIOSH
 STEL/REL
 15.6 ppm or 60 mg/m³

Additional information: The IDLH is 250 ppm.

8.2 Exposure controls

Execute works under fume hood. Do not inhale substance. The substance should only be handled in closed apparatus or systems. Process exhaust through separator/filter as needed.

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the permissible exposure limits have

been exceeded.

NIOSH recommendations:

Up to 50 ppm: air purifying respirator with organic vapor cartridge in combination with N95,

R95, or P95 filter.

Up to 125 ppm: supplied air respirator or powered air purifying respirator with organic vapor

cartridge with high efficiency particulate filter.

Up to 250 ppm: supplied air respirator, powered air purifying respirator or any full face

respirator with organic vapor cartridge and appropriate filter.

Emergency or planned entry into unknown or IDLH conditions: supplied air respirator in

pressure positive mode.

Hand protection: Protective gloves according to ASTM F 739 Permeation tests:

Glove material: Neoprene - best PVC - acceptable

Nitrile - not recommended

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Goggles or face protection shield.

Body protection: Wear suitable protective clothing and chemical resistant safety shoes/boots.

General protection and hygiene measures:

Take off immediately all contaminated clothing. When using do not eat, drink or

smoke.

Have eye wash bottle or eye rinse ready at work place. Keep away from food, drink and animal feeding

stuffs.

Have safety shower ready at work place in the event of skin contact.

Alternatives to the following personal protective measures can only be determined in agreement with responsible safety experts.

Environmental exposure controls

Operational conditions and risk management measures should focus on containment and prevention of exposure to air, land or water. Although phenol is biodegradable and bioaccumulation potential is low EPA has set regulatory limits for protection of human health. OSHA has set regulatory limits to protect workers from inhalation and skin exposure.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid
Color colorless

Odor: Pungent Aromatic

Odor threshold: 0.022 - 22 mg/m³

Boiling temperature / boiling point
Freezing temperature /Freezing point
Flash point- Closed cup

181°C (357.8°F)
15°C (59°F)
105°C (221°F)
Ignition temperature
716°C (1320°F)

Flammable limits: LEL (Lower Explosion Limit): 1.70 Vol-%

UEL (Upper Explosive Limit): 8.60 Vol-%

Vapor pressure:at 20°C: 5.0 mbarDensity:Is heavier than airpH value:at 20 °C, 10 g/L: 4-5Water solubility:at 20°C: 84 g/L

at 25 °C: 87 g/L at 68°C: fully miscible

Partition coefficient n-octanol /water: 1.47 $\log P(o/w)$ (CPC)

Appreciable bio-accumulation is not to be expected (log P (o/w 1-3).

Viscosity, dynamic: at 50°C: 3,437 mPa*S

9.2 Other information

Molecular weight: 94.11 g/mol

Relative vapor density at 20°C (air=1): 3.2

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions are known.

10.2 Chemical stability

Hygroscopic

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

No decomposition when used properly.

It may react to form catechol, hydroquinone, as a result of radical formation.

10.5 Incompatible materials

Oxidizing agents, aldehydes, isocyanates, nitrites, nitrides, Friedel-Crafts catalysts.

Avoid ignitable vapor-air-mixtures.

Unsuitable materials Metals, Rubber, various plastics, alloys

10.6 Hazardous decomposition products

In case of fire may be liberated: carbon monoxide and carbon dioxide.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity of Phenol:

LD50 Rat, oral: 340 mg/kg body weight LDLo human, oral: 140 mg/kg body weight LD50 Rat, dermal: 660 mg/kg body weight

LC50 Rat, inhalative: 316 mg/m³/4h

After inhalation: Toxic. Danger of serious damage to health by prolonged exposure.

The following symptoms may occur:

Mucous membrane irritation, cough, shortage of breath, damage of respiratory tract.

After swallowing: Toxic. Danger of serious damage to health by prolonged exposure.

Specific target organ toxicity: Harmful effects are not known.

In case of skin contact: Causes burns.

After eye contact: Causes burns.

Carcinogenic, germ cell mutagen and reproduction effects

Muta. 2 - Suspected of causing genetic defects.

Symptoms

After contact with skin:

Strong skin absorption as main danger of phenol poisoning at the workplace with paralysis of the central nervous system (with lethal consequences in severe cases) as

well as liver and kidney damage

General remarks

Not known to cause sensitization.

Mutagenicity:

Bacterial mutagenicity: negative.

Chromosomal aberrations in-vitro: positive.

Micronucleus test: in-vitro: positive.

Gene-mutations mammalian cells in-vitro: positive. Sister chromatid exchange in-vitro: positive. Micronucleus test: in-vivo: weak positive.

Carcinogenicity:

Specific symptoms in animal studies: None carcinogenic effect.

Reproductive toxicity

Specific symptoms in animal studies: No reproductive hazards have been observed.

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SECTION 12: Ecological information

12.1 Toxicity

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50

between 1 and 10 mg/L in most species tested). Category (Acute 2)

Aquatic toxicity: Algae toxicity:

EC50 Pseudokirchnerella subcapitata, (freshwater, cell number): 61.1 mg/L/96h.

Bacterial toxicity:

IC50 Nitrosomonas sp: 21 mg/L/24h.

Daphnia toxicity:

EC50 Ceriodaphnia dubia: 3.1 mg/L/48h.

Fish toxicity:

LC50 Oncorhynchus mykiss: 8.9 mg/L/96h.

Long term fish toxicity:

60 d NOEC (cirrhina mrigala): 0.0077 mg/L

Water Hazard Class: Hazardous substance regulated by EPA under the Clean Water Act

12.2. Persistence and degradability

Further details: Material is readily biodegradable based on OECD test(s)

Air (Indirect photodegradation by reaction with OH radicals.): half-life time approx. 14 hours

Water: Not susceptible to hydrolysis. Biodegradation:

Activated sludge: 62 %/100h, readily biodegradable (OECD 301C). Activated sludge: 85%/14d, rapidly biodegradable (OECD 301C).

12.3 Bioaccumulative potential

Low bioaccumulation potential.

Bioconcentration factor (BCF)

17.5

12.4 Mobility in soil

Mobility potential is high.

Koc: 82.8 I/kg (measured log Pow value of 1.47)

The soil sorption coefficient indicates a low sorption of phenol onto soil organic matter.

Evaporation rate (Volatilization) at 20°C: H=0.022 Pa* m³/mol.

The calculated Henry's Law constant indicates a low to moderate volatility from aqueous

solution.

12.5 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

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SECTION 13: Disposal Considerations

13.1 Waste Disposal Information

Product

Recommendation: U188 (commercial chemical product or off-spec commercial chemical product)

Dispose in accordance with all Federal, State, and local regulations or requirements.

Contaminated packaging

Recommendation: Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transportation Information

14.1 UN Number and Proper Shipping Name

Liquid UN2821

PHENOL. SOLUTIONS

14.2 Department of Transportation - Phenol Solutions

Proper shipping name: PHENOL, SOLUTIONS

UN 2821

Hazard class: 6.1 Packing group: PGII Label codes: 6.1

Special provision: IB2, T7, TP2

Packaging exemptions: 153; Non-bulk: 202; Bulk: 243

Quality Limitations: Passenger aircraft/rail: 5L; Cargo aircraft only: 60L

Vessel stowage location: A

14.4 IMDG

Proper shipping name: PHENOL, SOLUTION

UN 2821

Hazard class: 6.1 Packing group: PGII

Quantity Limitations: 100mL limited quantities; E4 excepted quantities

Packing Instructions and provisions: P001

IBC Instructions: IBC02

Portable tank and bulk containers: Instructions T7; provisions TP2

EMS number: F-A, S-A

Stowage and segregation: Category A

Marine pollutant: No

14.5 IATA

Proper shipping name: PHENOL, SOLUTION

UN 2821

Hazard class: 6.1 Packing group: PGII Hazard label: Toxic

Cargo Packing Instructions: 662
Passenger Packing Instructions: 654

Additional Information: RQ 1000 lbs for phenol

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SECTION 15: Regulatory information

15.1 U.S. Federal Regulations

OSHA:

This document has been prepared in accordance with the Safety Data Sheet (SDS) requirements of the OSHA Hazard Communications Standard and Global and Global Harmonization System (GHS)

EPA:

TSCA:

TSCA Inventory: (Phenol) listed TSCA Section 8(b): (Water) listed

TSCA Section 12(b): (Phenol) Subject to export notification

TSCA HPVC: (Phenol) not listed

Clean Air Act: (Phenol)

Hazardous Air Pollutants: Listed Section 112 Hazardous air polluants

SOCMI Chemical: yes

Clean Water Act: (Phenol)

Section 311: Hazardous Substance; RQ 1000 lbs.

Section 304(a): Priority Pollutant

SARA: (Phenol)

Section 302: EHS; TPQ 500/10000 lbs; RQ 1000lbs

Section 311/312: Hazard classifications: Immediate (acute), Fire Section 313: Subject to Toxic Release Inventory (TRI) reporting

CERCLA: (Phenol)

RQ 1000 lbs

RCRA: (Phenol)

Listed as hazardous waste; classified as toxic waste and subject to the small quantity exclusion

U listed hazardous waste

EPA Pesticides (Phenol)

Listed as active ingredients Listed as inert ingredients

Other: (Phenol)
Carcinogen Status:

IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

NIOSH Recommendations: (Phenol)

Occupational Health Guideline 0493

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15.2 U.S. State Regulations (Phenol)

New Jersey:

New Jersey Right-to-Know legislation: Phenol -Substance Number 1487, RTK Special Health Hazardous Substance

Pennsylvania:

Pennsylvania Worker and Community Right-To-Know Act: Listed as hazardous substance and/or the Pennsylvania Environmental Substance list.

California:

Proposition 65: This material contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the requirements.

Louisiana Right-To-Know

List of Extremely Hazardous Substances; TQ 500 lbs.

Minnesota Right-To-Know

Listed on Chemicals of High Concern list.

New York Substance Release and Bulk Storage

List of hazardous substances.

Rhode Island

Listed on hazardous substances list.

15.3 International Regulations (Phenol)

Canada

Listed on National Pollutant Release Inventory.

On Workplace Hazardous Material Information System (WHMIS) ingredient list.

Mexico

Listed on Registry of Industrial Pollution and Transfer (RETC)

European Union

Listed on Pollutant Release and Transfer Registry (PRTR)

Singapore

List of Controlled Hazardous Substances

Japan

List of Priority Assessment Chemicals (PAC)

Hong Kong

Hazardous Chemicals Control Ordinance - Dangerous Goods list

Turkey

List of Priority Chemicals

India

List of Hazardous Chemicals

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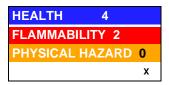
SECTION 16: Other Information

16.1 NFPA



NFPA Hazard Rating Health: 4 (Severe) Fire: 2 (Moderate) Reactivity: 0 (Minimum) Special Warnings: None

16.2 HMIS



HMIS Rating: Health: 4 (Severe) Flammability: 2 (Moderate) Physical Hazard: 0 (Minimum)

Personal protection: X (consult your supervisor)

16.3 Disclaimer

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