

# Safety Data Sheet

Phenol Standard  
Revision Date: 1/1/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Phenol Standard  
**Product code:** 400507

**Supplier:** EDM 3, LLC  
3611 St Johns Bluff Road, Suite 1  
Jacksonville, FL 32224  
800-638-2625  
Monday-Friday: 8:00 -5:00 PM

**Synonym:** None.  
**Material uses:** Laboratory Reagent.  
**Validation date:** 1/1/2020  
**In case of a medical emergency or a spill, call:** INFOTRAC at 1-800-535-5053 (Domestic within the USA and Canada)  
or 1-352-323-3500 (International callers may call collect), 24  
hours/day,  
7 days/week.

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Target Organs: Eyes, Kidney, Liver, Heart, Central Nervous System

**GHS Label Elements:** Pictogram



**Signal Word**    **Danger!**

### Hazardous Statement(s)

**H340:** May cause genetic defects  
**H360:** May damage fertility or the unborn child

### Potential Health Effects

Inhalation - May be harmful if inhaled. Causes respiratory tract irritation.  
Skin - May be harmful if absorbed through skin. Causes skin irritation.  
Eyes - Causes eye irritation. Ingestion - May be harmful if swallowed.

### Precautionary Statement(s)

**P262;** Do not get in eyes, skin or clothing  
**P280;** Wear protective gloves/eye protection  
**P302;** Wash with plenty of water

### HMIS Classification

Health hazard: 1  
Fire: 0  
Reactivity Hazard: 0

### NFPA Rating

Health hazard: 1  
Flammability: 0  
Physical hazards: 0

### Target Organs

Central Nervous System (CNS), Skin, Liver, Kidney, Spleen, Blood

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	%v/v
------	------------	------

Phenol  
Water

108-95-2  
7732-18-5

< 1mL  
Balance

#### 4. FIRST AID MEASURES

- Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

#### 5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Water spray, dry chemical, CO2 and foam
- Not suitable:** None known.
- Special exposure hazards:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without training.
- Hazardous thermal decomposition products:** No specific data.
- Special protective equipment for fire-fighters:** Wear protective clothing with NIOSH approved breathing apparatus. Product of combustion may be harmful in a fire situation. Do not use direct water stream.
- Special remarks on explosion hazards:** May emit toxic fumes under fire conditions

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.  
Note: see section 1 for emergency contact information and section 13 for waste disposal.  
Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container

#### 7. HANDLING AND STORAGE

- Handling:** Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Consult local authorities for acceptable exposure limits.**

- Engineering measures:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Component	Source	Type	Value	Note
Phenol Solution	US (OSHA)	TWA	5 ppm	29 CFR 1910.1000 Table Z-1 Limits for Air Containments
Phenol Solution	US (ACGIH)	TLV	5 ppm	Upper respiratory tract irritation.

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protection  
Respiratory:**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Hands:**

**Eyes:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

**Skin:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

**Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Characteristic, sweet, medicinal
<b>pH:</b>	~6
<b>Boiling/condensation point:</b>	NA
<b>Melting/freezing point:</b>	Not available.
<b>Relative density:</b>	1.0
<b>Vapor pressure:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Odor threshold:</b>	Not available.
<b>Evaporation rate:</b>	0.36 (Water) compared with(n-Butyl Acetate =1)
<b>Solubility:</b>	Soluble in the following materials: water

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	The product is stable.
<b>Possibility of hazardous reactions:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Hazardous polymerization:</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	Excessive heat.
<b>Hazardous decomposition products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under fire condition; carbon oxides

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity - Oral Exposure:**

Not applicable.

**Acute Toxicity - Dermal Exposure:**

Not applicable.

**Acute Toxicity - Inhalation Exposure:**

Not applicable.

**Acute Toxicity - Other Information:**

LD50, Oral, Rat: 317 mg/kg (Phenol), LD50, Inhalation, Rat: 316 mg/m3 (Phenol), details of toxic effects not reported other than lethal dose value.

LD50, Dermal, Rat: 669 mg/kg (Phenol), behavioral, kidney, ureter, bladder, skin effects noted. Investigated as a tumorigen.

**Skin Corrosion and Irritation:**

Not applicable.

**Serious Eye Damage and Irritation:**

Not applicable.

**Respiratory Sensitization:**

Not applicable.

**Skin Sensitization:**

Not applicable.

**Germ Cell Mutagenicity:**

May cause genetic defects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Carcinogenicity:**

Not applicable.

**Reproductive Toxicity:**

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

**Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

**Aspiration Hazard:**

Not applicable.

**Additional Toxicology Information:**

Data not available.

**12. ECOLOGICAL INFORMATION**

**Environmental effects:** Not applicable

**Other adverse effects:** No known significant effects or critical hazards.

**13. DISPOSAL CONSIDERATIONS**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION**

DOT, IMDG, IATA, TDG, Non regulated in provided concentration

**15. REGULATORY INFORMATION****De Minimis Exceptions 173.4b**

Are not subject to the requirements. This includes very small amounts (one mL/0.03 ounce or one gram/0.04 ounce per inner packaging) of PG II and III materials in Class 3, Division 4.1, 4.2, 4.3, 5.1, 6.1, Class 8 and 9.

**5.1. Occupational Safety and Health Administration (OSHA) Hazards**

Not listed.

**15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances**

Phenol (CAS # 108-95-2): 1000 lb EPCRA RQ

Phenol (CAS # 108-95-2): 500 lb lower TPQ; 10000 lb upper TPQ

**15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals**

Phenol (CAS # 108-95-2): 1000 lb final RQ; 454 kg final RQ

**15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)**

Phenol (CAS # 108-95-2): 1.0 % de minimis concentration

**15.5. Massachusetts Right-to-Know Substance List**

Phenol (CAS # 108-95-2): Extraordinarily hazardous

**15.6. Pennsylvania Right-to-Know Hazardous Substances**

Phenol (CAS # 108-95-2): Environmental hazard

Phenol (CAS # 108-95-2): Present

Water (CAS # 7732-18-5): Present

**15.7. New Jersey Worker and Community Right-to-Know Components**

Phenol (CAS # 108-95-2): mutagen

Phenol (CAS # 108-95-2): sn 1487

Phenol (CAS # 108-95-2): SN 1487 500 lb TPQ

**15.8. California Proposition 65**

Not listed.

**15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDL)**

Phenol (CAS # 108-95-2): Present (DSL)

Water (CAS # 7732-18-5): Present (DSL)

**15.10. United States of America Toxic Substances Control Act (TSCA) List**

Phenol (CAS # 108-95-2): Present

Water (CAS # 7732-18-5): Present

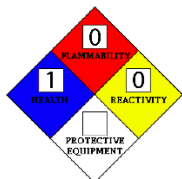
**15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),**

European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

## 16. OTHER INFORMATION

### National Fire Protection Association (U.S.A.)



### Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall EDM3 be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.