

HEALTH	3
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>Phenol, Natural</b>
Product Number	<b>0322300</b>
CAS-No.	<b>108-95-2</b>

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
Telephone	845-496-6065
Fax	845-496-6248

### 1.4 Emergency Telephone Number

1-800-535-5053  
International - 1-352-323-3500 collect

## Section 2: HAZARD(s) IDENTIFICATION

### 2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3) H301  
Acute toxicity, Inhalation (Category 3) H331  
Acute toxicity, Dermal (Category 3) H311  
Skin corrosion (Category 1B), H314  
Serious eye damage (Category 1) H318  
Germ cell mutagenicity (Category 2) H341  
Specific target organ toxicity- Repeated exposure (Category 2) H373  
Acute aquatic toxicity (Category 3) H402  
Chronic aquatic toxicity (Category 3) H412

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

**DANGER**

Hazard Statement(s)

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled  
H314 Causes severe skin burns and eye damage  
H341 Suspected of causing genetic defects  
H373 May cause damage to organs through prolonged or repeated exposure  
H412 Harmful to aquatic life with long lasting effects

Precautionary  
Statement(s)

P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and Understood.

- P260 Do not breathe dust/fume/gas/mist/vapors/spray  
 P264 Wash skin thoroughly after handling  
 P270 Do not eat, drink or smoke when using this product  
 P271 Use only outdoors or in a well ventilated area  
 P273 Avoid release into the environment  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor / physician  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
 P303+P361+P353 IF ON SKIN (or hair) Remove/Take off immediately all contaminated Clothing. Rinse with water/shower  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at a position comfortable for breathing  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue Rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician  
 P361 Remove/Take off immediately all contaminated clothing  
 P363 Wash contaminated clothing before re-use  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed  
 P405 Store locked up  
 P501 Dispose of contents/container to an approved waste disposal plant

## 2.3 HNOC (Hazards not otherwise classified or not covered by GHS – Vesicant, Rapidly absorbed through skin)

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms	Hydroxybenzene
Formula	C <sub>6</sub> H <sub>6</sub> O
Molecular Weight	94.11 g/mol
CAS-No	108-95-2
EC-No.	604-001-00-2

#### Hazardous Components

Component	Classification	Concentration
Phenol	Acute Toxicity (3) H301+H311+H331	
	Skin Corrosion (1B) H314	
	Eye Damage (1) H318	
	Mutagenicity (2) H341	
	STOT RE (2) H373	
	Acute Aquatic (3) H402	
	Chronic Aquatic (3) H412	

### Section 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

General advice	Consult physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water and take victim immediately to hospital. Contact a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 as a precaution and consult a physician. Continue rinsing during transport to hospital.

Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.
<b>4.2 Most important symptoms and effects both acute and delayed</b>	See section 2.2 and or section 11
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	No data available

## Section 5: FIREFIGHTING MEASURES

<b>5.1 Extinguishing Media</b>	Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
<b>5.2 Special hazards arising from the substance or mixture</b>		Carbon oxides
<b>5.3 Advice for fire fighters</b>		Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions
<b>5.4 Further information</b>		Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Evacuate personnel to safe area.
<b>6.2 Environment precautions</b>	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge to the environment must be avoided.
<b>6.3 Methods and materials for containment and clean up</b>	Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable, closed container for disposal.
<b>6.4 Specific end use(s)</b>	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

## Section 7: HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
<b>7.2 Conditions for Safe storage</b>	Keep container tightly closed in a dry and well-ventilated place. <b>Handle and store under inert gas. Light Sensitive</b>
<b>7.3 Specific End use(s)</b>	Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Phenol	108-95-2	TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks:	Central nervous system impairment Upper Respiratory Tract irritation Lung damage Substances for which there is a Biological Exposure Index or Indices (See BEI® section) Not classified as a human carcinogen Danger of cutaneous absorption			
		TWA	5 ppm	USA. NIOSH Recommended Exposure Limits
	Potential for dermal absorption			

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		C	15.6 ppm 60 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
Potential for dermal absorption 15 minute ceiling value				
		TWA	5 ppm 19 mg/m <sup>3</sup>	USA Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
Skin designation The value in mg/m <sup>3</sup> is approximate				
		TWA	5 ppm 19 mg/m <sup>3</sup>	USA OSHA Table Z-1 Limits for Air Contaminants 1910.1000
Skin Notation				

### Biological occupational exposure Limits

Component	CAS-No.	Parameters	Value	Biological Specimen	Basis
Phenol	108-95-2	Total Phenol	250 mg/g	Urine	ACGIH-Biological Exposure Indices (BEI®)
Remarks: End of shift (As soon as possible after exposure ceases)					

## 8.2 Exposure Controls

### Appropriate Engineering Controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

**These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.**

Eye/face protection	Wear appropriate safety glasses with side shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection	Wear chemically resistant, Butyl rubber gloves. 0.3mm when handling this product. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Impervious clothing protecting against chemicals, should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory protection	Where risk assessment shows air purifying respirators are appropriate use a full face particulate respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains, discharge into the environment must be avoided.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a	Appearance	Solid White crystals
b	Odor	Sickeningly sweet and irritating
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	40-43oC
f	Boiling Point	182oC
g	Flash Point	79-81°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 8.6% (V) Lower explosion limit: 1.7% (V)
k	Vapor pressure	6.3 hPa at 55oC 0.5 hPa at 20oC
l	Vapor density	No data available
m	Relative density at 25oC	1.071 g/cm3
n	Solubility	Soluble in water Very soluble in ethanol
o	Partition coefficient: n-octanol/water	Log Pow: 1.46
p	Auto-ignition Temp.	715oC
q	Decomposition Temp.	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available

### 9.2 Other Safety Information

Surface Tension: 38.2 mN/m at 50oC

## Section 10: STABILITY AND REACTIVITY

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of Hazardous reactions	No data available
10.4	Conditions to avoid	No data available
10.5	Incompatible materials	Strong oxidizing agents, Strong Bases, Strong Acids
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LD50-Oral-Rat	317.0 mg/kg Remarks: Behavioral: Convulsions or effect on seizure threshold
LC50-Inhalation-Rat	410-650.0 mg/kg
LD50-Dermal-Rabbit	900 mg/m3 -8 h 630 mg/kg
Skin corrosion/irritation	Rabbit: Severe skin irritation 24 h
Serious eye damage/eye irritation	Rabbit: Severe eye irritation
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	In vitro tests showed mutagenic effects

## Carcinogenicity

- This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.

IARC 3-Group 3: Not classifiable as to its carcinogenicity to humans (Phenol)  
NTP No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity-single exposure (GHS)

No data available

Specific target organ toxicity-repeated exposures (GHS)

May cause damage to organs through prolonged or repeated exposure

Aspiration Hazards

No data available

Potential Health effects

**Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.**

Signs and Symptoms of Exposure

**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 the mouth and G.I. Tract  
Jaundice, respiratory failure, Cardiac Arrest**

Synergistic effect

**Stomach irregularities – Based on Human evidence**

RTECS:

No data available

SJ3325000

## Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

To Fish

LC50- Leuciscus idus (Golden orfe) 14.00-25.00 mg/l -48h

LC50-Carassius auratus (goldfish) 36.10-38.80 mg/l -96h

To Daphnia and other aquatic invertebrates

EC-50 Daphnia magna (water flea) 12.00 mg/l -24 h

EC-100 Daphnia magna water flea) 100.00 mg/l -24h

To Algae

EC50-Chlorella vulgaris (Fresh water algae) 370 mg/l -96h

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required / not conducted

### 12.6 Other adverse effects

An environment hazard cannot be excluded in the event of unprofessional handling or disposal. **Harmful to aquatic life.**

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1 Disposal methods

Product: According to local regulations  
Packaging: According to local regulations

## Section 14: TRANSPORT INFORMATION

<b>DOT (US)</b>	UN-Number: 1671	Class: 6.1	Packing Group: II
Proper shipping name:	Phenol (solid)		
Reportable Quantity (RQ)	1000 lbs.		
Marine Pollutant:	No		
Poison Inhalation Hazard:	No		
<b>IMDG</b>	UN-Number: 1671	Class: 6.1	Packing Group: II EMS-No: F-A, S-A
Proper shipping name:	PHENOL (SOLID)		
Marine Pollutant:	No		
<b>IATA</b>	UN-Number: 1671	Class: 6.1	Packing Group: II
Proper shipping name:	PHENOL (SOLID)		

## Section 15: REGULATORY INFORMATION

Reach No. A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage not require a registration or the registration is envisaged for a later registration deadline.

SARA 302 Components The following components are subject to reporting levels established by SARA Title III, Section 302.

- Phenol CAS# 108-95-2 Revision Date: 1/7/2007

SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313.

- Phenol CAS# 108-95-2 Revision Date: 1/7/2007

SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know components Phenol CAS# 108-95-2 Revision Date: 1/7/2007

Pennsylvania Right to Know components Phenol CAS# 108-95-2 Revision Date: 1/7/2007

New Jersey Right to Know components Phenol CAS# 108-95-2 Revision Date: 1/7/2007

California Prop. 65 components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16: OTHER INFORMATION

### HMIS Rating

Health hazard 3  
Chronic Health Hazard \*  
Flammability 0  
Physical Hazard 0

# Safety Data Sheet

## Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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