

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>Creosote, Natural</b>
Product Number	<b>N/A</b>
CAS-No.	<b>8021-39-4</b>

**1.2 Product Recommended Use**                      **Flavorings**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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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 the substance or mixture

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

Flammable liquids (Category 4), H227  
Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Inhalation (Category 4), H332  
Acute toxicity, Dermal (Category 3), H311  
Skin corrosion (Category 1A), H314  
Serious eye damage (Category 1), H318  
Germ cell mutagenicity (Category 2), H341  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335  
Specific target organ toxicity - repeated exposure (Category 2), H373  
Acute aquatic toxicity (Category 3), H402  
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement	Danger	Combustible liquid
Hazard Statement(s)	H227 H301+H311 H314	Toxic if swallowed or in contact with skin Causes severe skin burns and eye damage.

	H332	Harmful if inhaled
	H335	May cause respiratory irritation. Suspected of causing genetic defects
	H341	
	H373	
	H402	
	H411	
Precautionary Statement(s)	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P261	Keep container tightly closed.
	P264	Ground/bond container and receiving equipment
	P271	Use only outdoors or in a well-ventilated area.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
	P301+P310+P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
	P304+P340+P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
	P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
	P308+P313	IF exposed or concerned: Get medical advice/ attention.
	P362	Take off contaminated clothing and wash before reuse.
	P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
	P391	Collect spillage.
	P403 +P233	Store in a well-ventilated place. Keep container tightly closed.
		Store in a well-ventilated place. Keep cool.
		Store locked up
		Dispose of contents/container to an approved waste disposal plant
	P403 +P235	
	P405	
	P501	
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

Mixture

Synonym Wood Tar Creosote  
 Formula N/A  
 Molecular Weight N/A  
 CAS-No 629-33-4

**Hazardous Components**

Component	Classification	Concentration
Cresol		
CAS-No. 1319-77-3 EC-No. 215-293-2 Index-No. 604-004-00-9	Flam. Liq. 4; Acute Tox. 3; Skin Corr. 1B; 2; Eye Dam. 1; H227, H301+H311, H314, H318	>=30 - <50 %
Guaiacol		
CAS-No. 90-05-1 EC-No. 201-964-7 Index-No. 604-031-00-6	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Aquatic Acute 3; H302, H315, H319, H402	>=30 - <50 %
2-Methoxy-p-cresol		
CAS-No. 93-51-6 EC-No. 202-252-9	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H302, H315, H319, H335	>=30 - <50 %
Phenol		
CAS-No. 108-95-2 EC-No. 203-632-7 Index-No. 604-001-00-2	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Muta. 2; STOT RE 2; Aquatic Acute 3; Aquatic Chronic 2; H301+H311+H331,H314,H318,H341, H373,H402,H411	>=10 - <20 %
Xylenol		
CAS-No. 1300-71-6 EC-No. 215-089-3 Index-No. 604-006-00-x	Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H301+H311,H314,H318+H411	>=10 - <20 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section 4: FIRST AID MEASURES****4.1 Description of first aid measures**

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water.

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes 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.

**4.2 Most important symptoms and effects both acute and delayed**

See section 2.2 and or section 11

- 4.3 **Indication of any immediate medical attention and special treatment needed.** No data available

## Section 5: FIREFIGHTING MEASURES

- 5.1 **Extinguishing Media**  
Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 **Special hazards arising from the substance or mixture** No data available
- 5.3 **Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary.
- 5.4 **Further information** Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
For personal protection see section 8.
- 6.2 **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 **Methods and materials for containment and clean up** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
- 6.4 **Reference to other sections**  
For disposal see section 13.

## Section 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.  
For precautions see section 2.2.
- 7.2 **Conditions for Safe storage** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Handle and store under inert gas. Air, light, and moisture sensitive.
- 7.3 **Specific End use(s)** Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**  
Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Cresol	1319-77-3	TWA	5.000000 ppm 22.000000	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air

# Safety Data Sheet

		mg/m3	Contaminants
	Remarks	Skin designation The value in mg/m3 is approximate	
		TWA	5.000000 ppm USA. ACGIH Threshold Limit Values (TLV)
		Eye, skin, & Upper Respiratory Tract irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC 2010 Revision or addition to the notice of intended changes. See Notice of Intended Changes (NIC) Danger of cutaneous absorption	
		TWA	20.000000 mg/m3 USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen Danger of cutaneous absorption	
		TWA 5 ppm	22 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m3 is approximate.	
		TWA	20 mg/m3 USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen Danger of cutaneous absorption	
		PEL	5 ppm 22 mg/m3 California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Phenol	108-95-2	TWA	5.000000 ppm USA. ACGIH Threshold Limit Values (TLV)
		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 classifiable as a human carcinogen; Danger of cutaneous absorption	
		TWA	5.000000 ppm 19.000000 mg/m3 USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption	
		C	15.600000 ppm 60.000000 mg/m3 USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption 15 minute ceiling value	
		TWA	5.000000 ppm 19.000000 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m3 is approximate	
		PEL	15 ppm 19 mg/m <sup>3</sup> California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin	
Hazardous components without workplace control parameters			

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

## 8.2 Exposure Controls

### Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

### Personal protective equipment

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

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 56 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body protection

Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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	Colorless to yellow oily liquid
b	Odor	Smoky
c	Odor Threshold	No data available
d	pH	7.0 – 8.0
e	Melting Point /Freezing Point	Melting point/range: < - 20°C
f	Initial boiling point and boiling range	205 - 225 °C
g	Flash Point	74°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	No data available
l	Vapor density	< 0.7 hPa (< 0.5 mmHg) at 25 °C (77 °F)
m	Relative density @25°C	1.037-1.087
n	Solubility	Very slightly soluble in water, soluble in alcohol and oils
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
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 No data available

## 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

<b>10.4 Conditions to avoid</b>	Exposure to moisture may affect product quality. Heat, flames and sparks.
<b>10.5 Incompatible materials</b>	Acid chlorides
<b>10.6 Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides
<b>10.7 Further Information</b>	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LC50-Inhalation No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ Cell mutagenicity No data available

#### Carcinogenicity

IARC No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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) No data available

Aspiration Hazards No data available

Signs and Symptoms of Exposure Gastrointestinal disturbance, Nausea, Dizziness, Headache, Vomiting, Cardiovascular effects. Muscle cramps/spasms.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Synergistic effects No data available

RTECS: GF8615000



**Section 12: ECOLOGICAL INFORMATION**

12.1	<b>Toxicity</b>	No data available
12.2	<b>Persistence and degradability</b>	No data available
12.3	<b>Bioaccumulative potential</b>	No data available
12.4	<b>Mobility in soil</b>	No data available
12.5	<b>Results of PBT and vPvB assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6	<b>Other adverse effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

**Section 13: DISPOSAL CONSIDERATIONS**

13.1	<b>Disposal methods</b>	
	Product:	According to local regulations
	Packaging	According to local regulations

**Section 14: TRANSPORT INFORMATION**

<b>DOT (US)</b>	UN number: 2922 Class: 8 (6.1) Packing group: II Proper shipping name: Corrosive liquids, toxic, n.o.s. (Cresol, 2-Methoxy-p-cresol) Reportable Quantity (RQ): 333 lbs
<b>IMDG</b>	UN number: 2922 Class: 8 (6.1) Packing group: II EMS-No: F-A, S-B Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (Cresol, 2-Methoxy-p-cresol)
<b>IATA</b>	UN number: 2922 Class: 8 (6.1) Packing group: II Proper shipping name: Corrosive liquid, toxic, n.o.s. (Cresol, 2-Methoxy-p-cresol)

**Section 15: REGULATORY INFORMATION**

SARA 302 Components	
Phenol	CAS-No.:108-95-2; Revision Date: 2007-07-01
SARA 313 Components	
Phenol	CAS-No.: 108-95-2; Revision Date: 2007-07-01
Cresol	CAS-No.: 1319-77-3; Revision Date: 1993-04-24
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know Components	
Cresol	CAS-No.: 1319-77-3; Revision Date: 1993-04-24
Phenol	CAS-No.: 108-95-2; Revision Date: 2007-07-01
Xylenol	CAS-No.: 1300-71-6; Revision Date: 1993-04-24
Pennsylvania Right to Know Components	
Cresol	CAS-No.: 1319-77-3; Revision Date: 1993-04-24
Guaiacol	CAS-No.: 90-05-1; Revision Date: 1993-02-16
2-Methoxy-p-cresol	CAS-No.: 93-51-6; Revision Date: 1993-02-16
Phenol	CAS-No.: 108-95-2; Revision Date: 2007-07-01
Xylenol	CAS-No.: 1300-71-6; Revision Date: 1993-04-24
New Jersey Right to Know Components	
	CAS-No.: 1319-77-3; Revision Date: 1993-04-24
	CAS-No.: 90-05-1; Revision Date: 1993-02-16

# Safety Data Sheet



CAS-No.: 93-51-6; Revision Date: 1993-02-16  
 CAS-No.: 108-95-2; Revision Date: 2007-07-01  
 CAS-No.: 1300-71-6; Revision Date: 1993-04-24

California Prop. 65 Components

This product does not contain any chemical known to the 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 2  
 Physical Hazard 0

### 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.

<b>Issued by:</b>	<b>Contact Person:</b>
Aurochemicals	Deo N. Persaud
7 Nicoll Street	Revised Date: 8/9/2022
Washingtonville, NY 10992 USA	