

# Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

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## \*\*\* Section 1 - PRODUCT AND COMPANY IDENTIFICATION \*\*\*

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### Material Name

Copaltite

### Manufacturer Information

National Engineering Products, Inc.  
5110 Ridgefield Road  
Suite 411  
Bethesda, MD 20816  
Phone: 301-656-1688  
E-mail: nepi.customerservice@gmail.com

### Product Use

High temperature sealing compound

### Restrictions on Use

None known.

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## \*\*\* Section 2 - HAZARDS IDENTIFICATION \*\*\*

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### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 4  
Acute Toxicity - Oral - Category 4  
Acute Toxicity - Dermal - Category 4  
Skin Corrosion/Irritation - Category 1  
Serious Eye Damage/Eye Irritation - Category 1  
Respiratory Sensitization - Category 1  
Skin Sensitization - Category 1  
Germ Cell Mutagenicity - Category 1B  
Carcinogenicity - Category 1B  
Reproductive Toxicity - Category 1B  
Specific Target Organ Toxicity - Single Exposure - Category 1

# Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

## Response

In case of fire: Use appropriate media for extinction

IF exposed or concerned: Get medical advice/attention

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Call a POISON CENTER or doctor/physician if you feel unwell

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

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 or doctor/physician

## Storage

Store in a well-ventilated place. Keep container tightly closed

Keep cool

Store in a secure area

## Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

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### \* \* \* Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS \* \* \*

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CAS	Component Name	Percent
1319-77-3	Cresol, all isomers	15-30
67-56-1	Methyl alcohol	5-10
7727-43-7	Barium sulfate	1-5
108-95-2	Phenol	1-5
50-00-0	Formaldehyde	<1

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SDS ID: NEPI-001

## Extinguishing Media

### Suitable Extinguishing Media

Carbon dioxide, regular dry chemical, foam, water spray

### Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

## Special Hazards Arising from the Chemical

Moderate fire hazard. Combustible liquid and vapor. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Containers may rupture or explode if exposed to heat.

## Hazardous Combustion Products

Oxides of carbon, aldehydes, cresol vapors, various organic fragments, oxides of sulfur, oxides of barium

## Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

## Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Do not scatter spilled material with high-pressure water streams. Fight large fires from a protected location or safe distance. Stay away from the ends of tanks. Stay upwind and keep out of low areas. Avoid inhalation of material or combustion by-products.

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## **\*\*\* Section 6 - ACCIDENTAL RELEASE MEASURES \*\*\***

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## Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

## Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Collect spilled material in appropriate container for disposal. Keep unnecessary people away, isolate hazard area and deny entry.

## Environmental Precautions

Avoid release to the environment. Prevent entry into waterways, sewers, basements, or confined areas.

# Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

OSHA (US):	5 ppmTWA; 22 mg/m <sup>3</sup> TWA
	prevent or reduce skin absorption (all isomers)
Mexico:	5 ppmTWA LMPE-PPT; 22 mg/m <sup>3</sup> TWA LMPE-PPT
	Skin - potential for cutaneous absorption
Methyl alcohol	67-56-1
ACGIH:	200 ppm TWA
	250 ppm STEL
	Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	200 ppmTWA; 260 mg/m <sup>3</sup> TWA
	250 ppmSTEL; 325 mg/m <sup>3</sup> STEL
	Potential for dermal absorption
	6000 ppmIDLH
Europe:	200 ppmTWA; 260 mg/m <sup>3</sup> TWA
	Possibility of significant uptake through the skin
OSHA (US):	200 ppmTWA; 260 mg/m <sup>3</sup> TWA
Mexico:	200 ppmTWA LMPE-PPT; 260 mg/m <sup>3</sup> TWA LMPE-PPT
	250 ppmSTEL [LMPE-CT]; 310 mg/m <sup>3</sup> STEL [LMPE-CT]
	Skin - potential for cutaneous absorption
Barium sulfate	7727-43-7
ACGIH:	5 mg/m <sup>3</sup> TWAinhalable fraction, particulate matter containing no asbestos and <1% crystalline silica
NIOSH:	10 mg/m <sup>3</sup> TWAtotal dust; 5 mg/m <sup>3</sup> TWArespirable dust
OSHA (US):	15 mg/m <sup>3</sup> TWAtotal dust; 5 mg/m <sup>3</sup> TWArespirable fraction
Phenol	108-95-2
ACGIH:	5 ppm TWA
	Skin - potential significant contribution to overall exposure by the cutaneous route

# Safety Data Sheet

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SDS ID: NEPI-001

## Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

## Individual Protection Measures, such as Personal Protective Equipment

### Eye/face protection

Wear splash resistant safety goggles with a faceshield.

### Skin Protection

Wear appropriate chemical resistant clothing. Wear chemical resistant apron.

### Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Consult with a health and safety professional for specific respirators appropriate for your use.

### Glove Recommendations

Wear appropriate chemical resistant gloves: plastic, rubber gloves.

### Protective Materials

Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

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## \* \* \* Section 9 - PHYSICAL AND CHEMICAL PROPERTIES \* \* \*

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<b>Appearance</b>	red, black liquid	<b>Physical State</b>	liquid
<b>Odor</b>	Slight methanol Odor	<b>Color</b>	red, black
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	80 C (@ 760 mm Hg)
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	7 (Butyl Acetate = 1)
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	Not available	<b>Flash Point</b>	190 - 200 F [TOC]

# Safety Data Sheet

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## Hazardous decomposition products

Oxides of carbon, aldehydes, cresol vapors, various organic fragments, oxides of sulfur, oxides of barium

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## \*\*\* Section 11 - TOXICOLOGICAL INFORMATION \*\*\*

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### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Cresol, all isomers (1319-77-3)

Oral LD50Rat 1454 mg/kg

Dermal LD50Rabbit 2000 mg/kg

Methyl alcohol (67-56-1)

Oral LD50Rat 6200 mg/kg

Inhalation LC50Rat 22500 ppm 8 h

Phenol (108-95-2)

Oral LD50Rat 340 mg/kg

Dermal LD50Rabbit 630 mg/kg

Formaldehyde (50-00-0)

Oral LD50Rat 600 mg/kg

Dermal LD50Rabbit 270 mg/kg

Inhalation LC50Rat 0.578 mg/L 4 h

### Immediate Effects

Skin burns, eye burns, central nervous system depression, allergic reactions, central nervous system damage, hematopoietic disorder, heart damage, kidney damage, liver damage, respiratory system damage, eye damage, systemic toxicity, cardiovascular system damage, nervous system damage

### Delayed Effects

Allergic reactions, mutagenic effects, cancer, reproductive effects, hematopoietic disorder, cardiovascular system damage, central nervous system damage, kidney damage, eye damage, digestive disorders, liver damage, spleen damage, thymus Effects, respiratory system damage

# Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

## Specific Target Organ Toxicity - Single Exposure

Central nervous system, Hematopoietic System, heart, kidneys, liver, respiratory system, retina, systemic toxicity, Cardiovascular system, nervous system

## Specific Target Organ Toxicity - Repeated Exposure

Central nervous system, Hematopoietic System, kidneys, liver, respiratory system, retina, Cardiovascular system, digestive system, spleen, thymus

## Aspiration hazard

No data available.

## Medical Conditions Aggravated by Exposure

Eye disorders, kidney disorders, skin disorders and allergies, heart or cardiovascular disorders, immune system disorders or allergies, respiratory disorders

## Additional Data

No additional information available.

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## \* \* \* Section 12 - ECOLOGICAL INFORMATION \* \* \*

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## Ecotoxicity

Toxic to aquatic life with long lasting effects.

## Component Analysis - Aquatic Toxicity

Cresol, all isomers	1319-77-3
Fish:	LC50 96 h Pimephales promelas 12.8 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 10 mg/L [static]
Methyl alcohol	67-56-1
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through]

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SDS ID: NEPI-001

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## \*\*\* Section 13 - DISPOSAL CONSIDERATIONS \*\*\*

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### Disposal Methods

Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

### Component Waste Numbers

Cresol, all isomers	1319-77-3
RCRA:	waste number U052
	200 mg/L(regulatory level total Cresol concentration)
Methyl alcohol	67-56-1
RCRA:	waste number U154 (Ignitable waste)
Phenol	108-95-2
RCRA:	waste number U188
Formaldehyde	50-00-0
RCRA:	waste number U122

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## \*\*\* Section 14 - TRANSPORT INFORMATION \*\*\*

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### US DOT Information:

Not regulated as a hazardous material.

### TDG Information:

Not regulated as a dangerous good.

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## \*\*\* Section 15 - REGULATORY INFORMATION \*\*\*

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# Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

Barium sulfate	7727-43-7	No	Yes	Yes	Yes	Yes
Phenol	108-95-2	Yes	Yes	Yes	Yes	Yes
Formaldehyde	50-00-0	Yes	Yes	Yes	Yes	Yes

## The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer  
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

Methyl alcohol	67-56-1
Repro/Dev. Tox	Developmental toxicity , initial date 3/16/12
Formaldehyde	50-00-0
Carc:	carcinogen , initial date 1/1/88 (gas)

## Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Cresol, all isomers	1319-77-3
	1 %
Methyl alcohol	67-56-1
	1 %
Phenol	108-95-2
	1 %
Formaldehyde	50-00-0
	0.1 %

## WHMIS Classification

B3, D2A, D2B, E

# Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

## Other Information

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

## Disclaimer:

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