

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Copaltite

Product Use

High temperature sealing compound

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

National Engineering Products, Inc.

5110 Ridgefield Road

Suite 411

Bethesda, MD 20816

Phone: 301-656-1688

Emergency Phone #: 301-656-1688 (Hours: 9:00 am to 4:00 pm EST)

E-mail: nepi.customerservice@gmail.com

Fax: 301-907-8948

Section 2 - HAZARDS IDENTIFICATION

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 (circulatory system , Central Nervous System , heart , liver , respiratory system , Hematopoietic System , cardiovascular system , kidneys , body , optic nerve , retina , systemic toxicity , eyes , nervous system , blood)

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (circulatory system , cardiovascular system , central Nervous System , kidneys , Hematopoietic System , liver , respiratory system , bone marrow , upper respiratory system , eyes , retina , intestinal tract , spleen , thymus , blood)

Specific Target Organ Toxicity - Repeated Exposure - Category 2

GHS Label Elements

Symbol(s)



Signal Word

Danger

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Hazard Statement(s)

Combustible liquid.
Harmful if swallowed.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs.
May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flame/hot surfaces - No smoking.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear respiratory protection.

Response

In case of fire: Use appropriate media to extinguish.
If exposed: Call a POISON CENTER or doctor/physician.
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 occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep 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.

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.

Statement(s) of Unknown Acute Toxicity

Oral 52.14% of the mixture consists of ingredient(s) of unknown acute toxicity.

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 |

Section 4 - FIRST AID MEASURES

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical advice/attention.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse.

Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Ingestion

If swallowed, do not induce vomiting. Rinse mouth. Get immediate medical attention.

Most Important Symptoms/Effects

Acute

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

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

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

Advice for firefighters

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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.

Section 6 - ACCIDENTAL RELEASE MEASURES

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.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

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

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not breathe gas, fumes, vapor, or spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

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

Keep cool.

Store in a secure area.

Store and handle in accordance with all current regulations and standards. Store below 72°F 22 °C.

Incompatible Materials

Alkali metals, strong acids, acyl halides, aldehydes, halogens, bases, strong oxidizing materials, combustible materials, halocarbons, amines

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

| | |
|---------------------|--|
| Cresol, all isomers | 1319-77-3 |
| ACGIH: | 20 mg/m3 TWA inhalable fraction and vapor |
| | Skin - potential significant contribution to overall exposure by the cutaneous route |
| Europe: | 5 ppm TWA (existing scientific data on health effects appear to be particularly limited) ; 22 mg/m3 TWA (existing scientific data on health effects appear to be particularly limited) |
| OSHA (US): | 5 ppm TWA ; 22 mg/m3 TWA |
| | prevent or reduce skin absorption (all isomers) |

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| | |
|-----------------------|--|
| Mexico: | 5 ppm TWA VLE-PPT ; 22 mg/m3 TWA VLE-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 ppm TWA ; 260 mg/m3 TWA |
| | 250 ppm STEL ; 325 mg/m3 STEL |
| | Potential for dermal absorption |
| | 6000 ppm IDLH |
| Europe: | 200 ppm TWA ; 260 mg/m3 TWA |
| | Possibility of significant uptake through the skin |
| OSHA (US): | 200 ppm TWA ; 260 mg/m3 TWA |
| Mexico: | 200 ppm TWA VLE-PPT ; 260 mg/m3 TWA VLE-PPT |
| | 250 ppm STEL [PPT-CT] ; 310 mg/m3 STEL [PPT-CT] |
| | Skin - potential for cutaneous absorption |
| Barium sulfate | 7727-43-7 |
| ACGIH: | 5 mg/m3 TWA inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica |
| NIOSH: | 10 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable dust |
| OSHA (US): | 15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction |
| Phenol | 108-95-2 |
| ACGIH: | 5 ppm TWA |
| | Skin - potential significant contribution to overall exposure by the cutaneous route |
| NIOSH: | 5 ppm TWA ; 19 mg/m3 TWA |
| | 15.6 ppm Ceiling 15 min ; 60 mg/m3 Ceiling 15 min |
| | SK: SYS(FATAL)-DIR(COR) (Apr 2011) |

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| | |
|---------------------|---|
| | 250 ppm IDLH |
| Europe: | 2 ppm TWA ; 8 mg/m3 TWA |
| | 4 ppm STEL ; 16 mg/m3 STEL |
| | Possibility of significant uptake through the skin |
| OSHA (US): | 5 ppm TWA ; 19 mg/m3 TWA |
| | prevent or reduce skin absorption |
| Mexico: | 5 ppm TWA VLE-PPT ; 19 mg/m3 TWA VLE-PPT |
| | 10 ppm STEL [PPT-CT] ; 38 mg/m3 STEL [PPT-CT] |
| | Skin - potential for cutaneous absorption |
| Formaldehyde | 50-00-0 |
| ACGIH: | 0.1 ppm TWA |
| | 0.3 ppm STEL |
| NIOSH: | 0.016 ppm TWA |
| | 0.1 ppm Ceiling 15 min |
| | SK: DIR(IRR)-SEN (Apr 2011) |
| | 20 ppm IDLH |
| OSHA (US): | 0.75 ppm TWA |
| | 2 ppm STEL (See 29 CFR 1910.1048) 15 min ; 0.5 ppm Action Level (See 29 CFR 1910.1048) ; 0.75 ppm TWA (See 29 CFR 1910.1048) |
| | 2 ppm STEL (see 29 CFR 1910.1048) |
| Mexico: | 2 ppm Ceiling ; 3 mg/m3 Ceiling |

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Methyl alcohol (67-56-1)

15 mg/l Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

Phenol (108-95-2)

250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)

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.

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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.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------|-----------------------|---|------------------------|
| Appearance | red black liquid | Physical State | Liquid |
| Odor | Slight, methanol odor | Color | red, black |
| Odor Threshold | Not available | pH | Not available |
| Melting Point | Not available | Boiling Point | 80 C (@ 760 mm Hg) |
| Boiling Point Range | Not available | Freezing point | Not available |
| Evaporation Rate | 7 (Butyl Acetate = 1) | Flammability (solid, gas) | Not available |
| Autoignition Temperature | Not available | Flash Point | 190 - 200 F [TOC] |
| Lower Explosive Limit | 6.7 | Decomposition temperature | Not available |
| Upper Explosive Limit | 36 | Vapor Pressure | 52 mm Hg (@ 25 C) |
| Vapor Density (air=1) | 1.1 | Specific Gravity (water=1) | 1.135 - 1.165 (20/20C) |
| Water Solubility | 100 % | Partition coefficient: n-octanol/water | Not available |
| Viscosity | Not available | Kinematic viscosity | Not available |
| Solubility (Other) | Not available | Density | Not available |
| Molecular Weight | Not available | | |

Other Information

No additional information is available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

May polymerize when heated.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

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Incompatible Materials

Alkali metals, strong acids, acyl halides, aldehydes, halogens, bases, strong oxidizing materials, combustible materials, halocarbons, amines

Hazardous decomposition products

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

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness.

Skin Contact

Harmful in contact with skin. Causes skin burns. May cause allergic skin reaction.

Eye Contact

Causes serious eye damage.

Ingestion

Harmful if swallowed.

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 LD50 Rat 1454 mg/kg

Dermal LD50 Rabbit 2000 mg/kg

Methyl alcohol (67-56-1)

Oral LD50 Rat 6200 mg/kg

Dermal LD50 Rabbit 15840 mg/kg

Inhalation LC50 Rat 22500 ppm 8 h

Barium sulfate (7727-43-7)

Oral LD50 Rat 307000 mg/kg

Phenol (108-95-2)

Oral LD50 Rat 340 mg/kg

Dermal LD50 Rabbit 630 mg/kg

Formaldehyde (50-00-0)

Oral LD50 Rat 100 mg/kg

Dermal LD50 Rabbit 270 mg/kg

Inhalation LC50 Rat 0.578 mg/L 4 h

Product Toxicity Data

Acute Toxicity Estimate

| | |
|------|-----------------|
| Oral | 1438.3073 mg/kg |
|------|-----------------|

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

Irritation/Corrosivity Data

Skin burns, eye burns

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Respiratory Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Dermal Sensitization

May cause an allergic skin reaction.

Component Carcinogenicity

| | |
|----------------------------|--|
| Cresol, all isomers | 1319-77-3 |
| ACGIH: | A4 - Not Classifiable as a Human Carcinogen |
| DFG: | Category 3A (could be carcinogenic for man ;all isomers) |
| Barium sulfate | 7727-43-7 |
| DFG: | Category 4 (no significant contribution to human cancer) |
| Phenol | 108-95-2 |
| ACGIH: | A4 - Not Classifiable as a Human Carcinogen |
| IARC: | Monograph 71 [1999] ; Monograph 47 [1989] (Group 3 (not classifiable)) |
| DFG: | Category 3B (could be carcinogenic for man) |
| Formaldehyde | 50-00-0 |
| ACGIH: | A1 - Confirmed Human Carcinogen |
| IARC: | Monograph 100F [2012] ; Monograph 88 [2006] ; Monograph 62 [1995] ; Supplement 7 [1987] (Group 1 (carcinogenic to humans)) |
| NTP: | Known Human Carcinogen |
| DFG: | Category 4 (no significant contribution to human cancer) |
| OSHA: | Present |
| OSHA: | see 29 CFR 1910.1048 |
| NIOSH: | potential occupational carcinogen |

Germ Cell Mutagenicity

May cause genetic defects.

Tumorigenic Data

No data available

Reproductive Toxicity

Available data characterizes components of this product as reproductive hazards.

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

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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.

Section 12 - ECOLOGICAL INFORMATION

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] |
| Phenol | 108-95-2 |
| Fish: | LC50 96 h Pimephales promelas 11.9 - 50.5 mg/L [flow-through]; LC50 96 h Pimephales promelas 20.5 - 25.6 mg/L [static]; LC50 96 h Pimephales promelas 32 mg/L; LC50 96 h Oncorhynchus mykiss 5.449 - 6.789 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 7.5 - 14 mg/L [static]; LC50 96 h Oncorhynchus mykiss 4.23 - 7.49 mg/L [semi-static]; LC50 96 h Oncorhynchus mykiss 5 - 12 mg/L; LC50 96 h Lepomis macrochirus 13.5 mg/L [static]; LC50 96 h Lepomis macrochirus 11.9 - 25.3 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 11.5 mg/L [semi-static]; LC50 96 h Poecilia reticulata 34.09 - 47.64 mg/L [static]; LC50 96 h Poecilia reticulata 31 mg/L [semi-static]; LC50 96 h Brachydanio rerio 27.8 mg/L; LC50 96 h Cyprinus carpio 0.00175 mg/L [semi-static]; LC50 96 h Oryzias latipes 33.9 - 43.3 mg/L [flow-through]; LC50 96 h Oryzias latipes 23.4 - 36.6 mg/L [static] |
| Algae: | EC50 96 h Pseudokirchneriella subcapitata 46.42 mg/L EPA ; EC50 96 h Pseudokirchneriella subcapitata 0.0188 - 0.1044 mg/L [static] EPA ; EC50 72 h Desmodesmus subspicatus 187 - 279 mg/L [static] EPA |
| Invertebrate: | EC50 48 h Daphnia magna 4.24 - 10.7 mg/L [Static] EPA ; EC50 48 h Daphnia magna 10.2 - 15.5 mg/L EPA |
| Formaldehyde | 50-00-0 |
| Fish: | LC50 96 h Pimephales promelas 22.6 - 25.7 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 1510 µg/L [static]; LC50 96 h Brachydanio rerio 41 mg/L [static]; LC50 96 h |

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| | Oncorhynchus mykiss 0.032 - 0.226 mL/L [flow-through]; LC50 96 h Oncorhynchus mykiss 100 - 136 mg/L [static]; LC50 96 h Pimephales promelas 23.2 - 29.7 mg/L [static] |
| Invertebrate: | LC50 48 h Daphnia magna 2 mg/L IUCLID ; EC50 48 h Daphnia magna 11.3 - 18 mg/L [Static] EPA |

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility

No data available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

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

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not regulated as a hazardous material.

IATA Information:

UN#: Not regulated as a dangerous good.

TDG Information:

UN#: Not regulated as a dangerous good.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

| | |
|----------------------------|-------------------------------------|
| Cresol, all isomers | 1319-77-3 |
| SARA 313: | 1 % de minimis concentration |
| CERCLA: | 100 lb final RQ ; 45.4 kg final RQ |
| Methyl alcohol | 67-56-1 |
| SARA 313: | 1 % de minimis concentration |
| CERCLA: | 5000 lb final RQ ; 2270 kg final RQ |
| Phenol | 108-95-2 |

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| | |
|---------------------|---------------------------------------|
| SARA 302: | 500 lb lower TPQ ; 10000 lb upper TPQ |
| SARA 313: | 1 % de minimis concentration |
| CERCLA: | 1000 lb final RQ ; 454 kg final RQ |
| SARA 304: | 1000 lb EPCRA RQ |
| Formaldehyde | 50-00-0 |
| SARA 302: | 500 lb TPQ |
| SARA 313: | 0.1 % de minimis concentration |
| CERCLA: | 100 lb final RQ ; 45.4 kg final RQ |
| OSHA (safety): | 1000 lb TQ |
| SARA 304: | 100 lb EPCRA RQ |

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Flammable; Carcinogenicity; Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Germ Cell Mutagenicity

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA |
|----------------------------|------------------|-----|-----|-----|-----|-----|
| Cresol, all isomers | 1319-77-3 | Yes | Yes | Yes | Yes | Yes |
| Methyl alcohol | 67-56-1 | Yes | Yes | Yes | Yes | Yes |
| 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 , 3/16/2012 |
| Formaldehyde | 50-00-0 |
| Carc: | carcinogen , 1/1/1988 (gas) |

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Canada Regulations

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

Component Analysis - Inventory

Cresol, all isomers (1319-77-3)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 | KR - REACH CCA | CN | NZ | MX | TW | VN (Draft) |
|-----|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|----------------|-----|-----|-----|-----|------------|
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |

Methyl alcohol (67-56-1)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 | KR - REACH CCA | CN | NZ | MX | TW | VN (Draft) |
|-----|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|----------------|-----|-----|-----|-----|------------|
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |

Barium sulfate (7727-43-7)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 | KR - REACH CCA | CN | NZ | MX | TW | VN (Draft) |
|-----|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|----------------|-----|-----|-----|-----|------------|
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes |

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Phenol (108-95-2)

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|----------------|-----|-----|-----|-----|------------|
| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 | KR - REACH CCA | CN | NZ | MX | TW | VN (Draft) |
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |

Formaldehyde (50-00-0)

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|----------------|-----|-----|-----|-----|------------|
| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 | KR - REACH CCA | CN | NZ | MX | TW | VN (Draft) |
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |

Further information

All components of this product are either included on the TSCA 8(b) inventory or are excluded from listing.

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 3* Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 3 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

Sections 2, 8, 11, 15

Preparation Date

04/29/2016

Revision date

02/22/2018

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; 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; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

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