

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

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

Material Name

Copaltite

Manufacturer Information

National Engineering Products, Inc.

5110 Ridgfield 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.

*** 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

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

Specific Target Organ Toxicity - Single Exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1
Specific Target Organ Toxicity - Repeated Exposure - Category 2

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)

Combustible liquid
Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
May cause 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/vapours/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 should not be allowed out of the workplace
Wear protective gloves/protective clothing/eye protection/face protection
Wear respiratory protection

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

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

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. Wash 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.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

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

***** Section 5 - FIRE FIGHTING MEASURES *****

Safety Data Sheet

Material Name: Copaltite

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.

***** 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.

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

*** 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 and handle in accordance with all current regulations and standards. Do not store at temperatures above 72 °F (22 °C).

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

Keep cool

Store in a secured area

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/m ³ 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/m ³ TWA (existing scientific data on health effects appear to be particularly limited)

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

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

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

NIOSH:	5 ppmTWA; 19 mg/m ³ TWA
	15.6 ppm Ceiling 15 min; 60 mg/m ³ Ceiling 15 min
	Potential for dermal absorption
	250 ppmIDLH
Europe:	7.8 mg/m ³ TWA; 2 ppm TWA
	2 ppmTWA; 8 mg/m ³ TWA
	Possibility of significant uptake through the skin
	4 ppmSTEL; 16 mg/m ³ STEL
	Possibility of significant uptake through the skin
OSHA (US):	5 ppmTWA; 19 mg/m ³ TWA
	prevent or reduce skin absorption
Mexico:	5 ppmTWA LMPE-PPT; 19 mg/m ³ TWA LMPE-PPT
	10 ppmSTEL [LMPE-CT]; 38 mg/m ³ STEL [LMPE-CT]
	Skin - potential for cutaneous absorption
Formaldehyde	50-00-0
ACGIH:	0.3 ppm Ceiling
NIOSH:	0.016 ppmTWA
	0.1 ppm Ceiling 15 min
	20 ppmIDLH
OSHA (US):	0.75 ppmTWA
	2 ppmSTEL (See 29 CFR 1910.1048) 15 min; 0.5 ppmAction Level (See 29 CFR 1910.1048); 0.75 ppmTWA (See 29 CFR 1910.1048)
	2 ppmSTEL (See 29 CFR 1910.1048)
Mexico:	2 ppmCeiling; 3 mg/m ³ Ceiling

Biological limit value

There are no biological limit values for any of this product's components.

Safety Data Sheet

Material Name: Copaltite

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.

*** 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)
Freezing point	Not available	Evaporation Rate	7 (Butyl Acetate = 1)
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	190 - 200 F [TOC]

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

Lower Explosive Limit	6.7	Decomposition	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	Solubility (Other)	Not available
Density	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.

Incompatible Materials

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

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

Hazardous decomposition products

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

***** Section 11 - TOXICOLOGICAL INFORMATION *****

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

Irritation/Corrosivity Data

Skin burns, eye burns

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)
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:	A2 - Suspected 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

Germ Cell Mutagenicity

May cause genetic defects.

Reproductive Toxicity

Available data characterizes components of this product as reproductive hazards.

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.

*** 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]

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

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 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.

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

*** Section 13 - DISPOSAL CONSIDERATIONS ***

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

*** Section 14 - TRANSPORT INFORMATION ***

US DOT Information:

Not regulated as a hazardous material.

TDG Information:

Not regulated as a dangerous good.

*** Section 15 - REGULATORY INFORMATION ***

Safety Data Sheet

Material Name: Copaltite

SDS ID: NEPI-001

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 kgfinal RQ
Methyl alcohol	67-56-1
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ; 2270 kgfinal RQ
Phenol	108-95-2
SARA 302:	500 lb lower TPQ; 10000 lb upper TPQ
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ; 454 kgfinal 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 kgfinal RQ
OSHA (safety):	1000 lb TQ
SARA 304:	100 lb EPCRA RQ

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

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

Component Analysis - Inventory

Component	CAS#	US	CA
Cresol, all isomers	1319-77-3	Yes	DSL
Methyl alcohol	67-56-1	Yes	DSL
Barium sulfate	7727-43-7	Yes	DSL
Phenol	108-95-2	Yes	DSL
Formaldehyde	50-00-0	Yes	DSL

*** Section 16 - OTHER INFORMATION ***

HMIS Ratings

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

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; 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; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; 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; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; 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; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade

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.

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