

Common Name: **COBALT NAPHTHENATE**

Synonyms: Cobalt Naphtha; Naftolite

CAS No: 61789-51-3

 Molecular Formula:  $\text{Co}(\text{C}_{11}\text{H}_{10}\text{O}_2)_2$ 

RTK Substance No: 0523

 Description: Brown powder or bluish-red solid which is often used in a solution of *Mineral Oil* or *Mineral Spirits*
**HAZARD DATA**

Hazard Rating	Firefighting	Reactivity
<b>2- Health</b> <b>2 - Fire</b> <b>0 - Reactivity</b> DOT#: UN 2001 ERG Guide #: 133 Hazard Class: 4.1 (Flammable solids)	Use dry chemical, CO <sub>2</sub> , water spray or foam as extinguishing agent. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Cobalt Oxide</i> . Use water spray to keep fire-exposed containers cool. FIRE MAY RESTART AFTER IT HAS BEEN EXTINGUISHED. <b>Cobalt Naphthenate</b> in powder or granular form may explode when mixed in air.	<b>Cobalt Naphthenate</b> is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE) and STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC).

**SPILL/LEAKS**
**Isolation Distance:**

Spills: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Collect powdered material in the most convenient and safe manner and deposit in sealed containers.

Aquatic life may be harmed by exposure to this chemical.

**PHYSICAL PROPERTIES**

<b>Odor Threshold:</b>	Odorless (solution may have Mineral Spirits odor)
<b>Flash Point:</b>	121°F (49°C)
<b>LEL:</b>	0.07%
<b>UEL:</b>	6%
<b>Auto Ignition Temp:</b>	529°F (276°C)
<b>Vapor Density:</b>	3.9 (air = 1)
<b>Vapor Pressure:</b>	1 mm Hg at 77°F (25°C)
<b>Specific Gravity:</b>	0.95 (water = 1)
<b>Water Solubility:</b>	Insoluble
<b>Boiling Point:</b>	515°F (268°C)
<b>Molecular Weight:</b>	407

**EXPOSURE LIMITS**

No occupational exposure limits have been established.

**PROTECTIVE EQUIPMENT**

<b>Gloves:</b>	Silver Shield®/4H®, Rubber or Nitrile for solid <b>Cobalt Naphthenate</b>
<b>Coveralls:</b>	DuPont Tyvek® for solid <b>Cobalt Naphthenate</b>
<b>Respirator:</b>	Full facepiece APR respirator with a High efficiency particulate filter or Supplied air

**HEALTH EFFECTS**

<b>Eyes:</b>	Irritation
<b>Skin:</b>	Irritation, skin allergy with itching and rash
<b>Inhalation:</b>	Nose, throat and lung irritation with coughing, wheezing and shortness of breath
<b>Chronic:</b>	Cobalt and Cobalt compounds may cause lung cancer in humans.

**FIRST AID AND DECONTAMINATION**

**Remove** the person from exposure.

**Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

**Quickly** remove contaminated clothing and wash contaminated skin with large amounts of soap and water.

**Begin** artificial respiration if breathing has stopped and CPR if necessary.

**Transfer** to a medical facility.