

# SAFETY DATA SHEET

Date Printed: 05/27/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (4N) 99.99% 5,10,15,20-Tetraphenyl-21H,23H-porphine cobalt(II)

Product Code: CO-OMX-04

CAS Number: 14172-90-8

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

# **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Carcinogenicity (Category 2), H351



Signal word Warning Hazard statement(s) H351 Suspected of causing cancer. Precautionary statement(s) P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant. Hazards not otherwise classified (HNOC) or not covered by GHS - none

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : Cobalt TPP Formula : C44H28CoN4 Molecular weight : 671.65 g/mol CAS-No. : 14172-90-8 EC-No. : 238-018-8

#### **SECTION 4. FIRST AID MEASURES**

General advice Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact Wash off with soap and plenty of water. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

#### **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Cobalt/cobalt oxides Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8. Environmental precautions No special environmental precautions required. Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.

# SECTION 7. HANDLING AND STORAGE

Precautions for safe handling Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Storage class (TRGS 510): 13: Non Combustible Solids

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** Components with workplace control parameters Contains no substances with occupational exposure limit values. Exposure controls Appropriate engineering controls General industrial hygiene practice. Personal protective equipment Eye/face protection 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. **Body Protection** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure No special environmental precautions required.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Form: powder Colour: dark brown Odour No data available Odour Threshold No data available pH No data available Melting point/freezing point Melting point/range: > 300 °C (> 572 °F) - dec. Initial boiling point and boiling range No data available Flash point ()No data available Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapour pressure No data available Vapour density No data available Relative density No data available Water solubility No data available Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available Explosive properties No data available Oxidizing properties No data available

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid No data available Incompatible materials Strong oxidizing agentsStrong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Cobalt/cobalt oxides Other decomposition products - No data available

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity No data available Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation 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. 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 on OSHA's list of regulated carcinogens. No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS:** Not available

#### **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects No data available

# SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging

#### Dispose of as unused product.

# **SECTION 14. TRANSPORT INFORMATION**

DOT (US)

# **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: 5,10,15,20-Tetraphenyl-21H,23H-porphine cobalt(II) CAS-No. 14172-90-8 Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components 5,10,15,20-Tetraphenyl-21H,23H-porphine cobalt(II) CAS-No. 14172-90-8 5,10,15,20-Tetraphenyl-21H,23H-porphine cobalt(II) CAS-No. 14172-90-8 New Jersey Right To Know Components 5,10,15,20-Tetraphenyl-21H,23H-porphine cobalt(II) CAS-No. 14172-90-8 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.