SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: ≥95% Tris(dibenzoylmethane)mono(1,10-phenanthroline)europium

Product Code: EU-BM-015-P

CAS Number: 17904-83-5

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
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Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Not classifiable
Signal word: None
Hazard Statement(s): None
Pictogram(s) or Symbol(s): None
Precautionary Statement(s): None
Supplementary Information: While this material is not classified as hazardous under OSHA, this SDS contains valuable information
critical to safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance
Components: Tris(1,3-diphenyl-1,3-propanedionato)(1,10-phenanthroline)europium(III)
Percent: >95.0%(T)
CAS Number: 17904-83-5
Molecular Weight: 1001.93
Chemical Formula: C57H41EuN2O6

SECTION 4. FIRST AID MEASURES

Inhalation: Move victim to fresh air. Call emergency medical service. Give artificial respiration if victim is not breathing.
Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to
protect themselves.
Skin contact: Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately
flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that
medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact: Move victim to fresh air. Check for and remove any contact lenses. In case of contact with substance,
immediately flush eyes with running water for at least 20 minutes. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical
personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion: If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat.
Rinse mouth. Keep victim warm and quiet. Loosen tight clothing such as a collar, tie, belt or waistband. If
swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and
supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to
protect themselves. Effects of exposure (ingestion) to substance may be delayed.
Symptoms/effects:
Acute: No data available
Delayed: No data available
Immediate medical attention: If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the
injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect
themselves.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Dry chemical, CO_2 , water spray, or alcohol-resistant foam. Consult with local fire authorities before
attempting large scale fire fighting operations.
Specific hazards arising from the chemical
Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides
Other specific hazards: Closed containers may explode from heat of a fire.
Special precautions for fire-fighters:
Not available
Special protective equipment for fire-fighters:
Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing
(Section 8).
Personal protective equipment: Wear protective clothing, gloves and eye protection.
Emergency procedures: In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise
caution.
Methods and materials for containment and cleaning up:
Dike far ahead of liquid spill for later disposal.
Environmental precautions:
Prevent entry into sewers, basements or confined areas.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive
fire protection. Follow safe industrial hygiene practices and always wear proper protective equipment when
handling this compound.
Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.
Storage incompatibilities: Store away from oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: No data available
Appropriate engineering controls:
Good general ventilation should be sufficient to control airborne levels. Eyewash fountains should be provided in areas where there is any possibility that
workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.
Personal protective equipment
Respiratory protection: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection: Wear protective gloves.
Eye protection: Safety glasses.
Skin and body protection: Lab coat.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid
Form: Crystal - Powder
Color: Slightly pale yellow - Reddish yellow
Odor: No data available
Odor threshold: No data available

Melting point/freezing point: 191°C (376°F)

Boiling point/range: No data available
Decomposition temperature: No data available
Relative density: No data available
Kinematic Viscosity: No data available
Partition coefficient: No data available
n-octanol/water (log Pow)
Flash point: No data available
Flammability (solid, gas): No data available

pH: No data available
Vapor pressure: No data available
Vapor density: No data available
Dynamic Viscosity: No data available
Evaporation rate: No data available
(Butyl Acetate = 1)
Autoignition temperature: No data available
Flammability or explosive limits: No data available
Lower: No data available
Upper: No data available

Solubility(ies):

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not Available.
Chemical Stability: Stable under recommended storage conditions. (See Section 7)
Possibility of Hazardous Reactions: No hazardous reactivity has been reported.
Conditions to avoid: Avoid excessive heat and light.
Incompatible materials: Oxidizing agents
Hazardous Decomposition Products: No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
No data available
Skin corrosion/irritation:
No data available
Serious eye damage/irritation:
No data available
Respiratory or skin sensitization:
No data available
Germ cell mutagenicity:
No data available
Carcinogenicity:
No data available
IARC: No data available NTP: No data available OSHA: No data available
Reproductive toxicity:
No data available
Routes of Exposure: Inhalation, Eye contact, Ingestion.
Symptoms related to exposure:
No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should

be kept to a minimum. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.
Potential Health Effects:
No specific information available; skin and eye contact may result in irriatation. May be harmful if inhaled or ingested.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Fish: No data available
Crustacea: No data available
Algae: No data available
Persistence and degradability: No data available
Bioaccumulative potential (BCF): No data available
Mobillity in soil: No data available
Partition coefficient:
n-octanol/water (log Pow)
No data available
Soil adsorption (Koc): No data available
Henry's Law:
constant (PaM3/mol)
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local
rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a
chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide
assistance but does not replace these laws, nor does compliance in accordance with this section ensure
regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous
Waste are listed in 40 CFR Parts 261.
Disposal of container: Dispose of as unused product.
Other considerations: Observe all federal, state and local regulations when disposing of the substance.

SECTION 14. TRANSPORT INFORMATION

DOT (US) Non-hazardous for transportation.
IATA Non-hazardous for transportation.
IMDG Non-hazardous for transportation.

SECTION 15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):
This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.
US Federal Regulations
CERCLA Hazardous substance and Reportable Quantity:
SARA 313: Not Listed
SARA 302: Not Listed
State Regulations
State Right-to-Know
Massachusetts Not Listed
New Jersey Not Listed
Pennsylvania Not Listed
California Proposition 65: Not Listed
Other Information
NFPA Rating:
Health: 0
Flammability: 0
Instability: 0
HMIS Classification:
Health: 0
Flammability: 0
Physical: 0
International Inventories
WHMIS hazard class: No data available.

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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.