

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Identifier:** Potassium Copper(I) Cyanide

**Product Code:** K-CUCY-01

**CAS Number:** 13682-73-0

**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

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H331 Toxic if inhaled.

GHS07

Acute Tox. 4 H312 Harmful in contact with skin.

Label elements

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

Potassium dicyanocuprate

· Hazard statements

H301+H331 Toxic if swallowed or if inhaled.

H312 Harmful in contact with skin.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

- Chemical characterization: Substances
  - CAS No. Description  
13682-73-0 Potassium dicyanocuprate
  - Identification number(s)
  - EC number: 237-192-2
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### **SECTION 4. FIRST AID MEASURES**

- Description of first aid measures
  - General information:  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Remove breathing apparatus only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
  - After inhalation:  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Do not induce vomiting; immediately call for medical help.
  - Information for doctor:  
· Most important symptoms and effects, both acute and delayed No further relevant information available.
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### **SECTION 5. FIREFIGHTING MEASURES**

- Extinguishing media
  - Suitable extinguishing agents:  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - Special hazards arising from the substance or mixture No further relevant information available.
  - Advice for firefighters
  - Protective equipment: Mouth respiratory protective device.
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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## SECTION 7. HANDLING AND STORAGE

- Handling:

- Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- Information about protection against explosions and fires: Keep respiratory protective device available.

- Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.

- Information about storage in one common storage facility: Not required.

- Further information about storage conditions: Keep receptacle tightly sealed.

- Specific end use(s) No further relevant information available.
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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Additional information about design of technical systems: No further data; see item 7.

- Control parameters

- Components with limit values that require monitoring at the workplace: Not required.

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use

respiratory protective device that is independent of circulating air.

- Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and

varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses
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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Powder

Color: White

- Odor: Odorless

- Odor threshold: Not determined.

- pH-value: Not applicable.

- Change in condition

Melting point/Melting range: 250 °C (482 °F)

Boiling point/Boiling range: no data °C

- Flash point: Not applicable.

- Flammability (solid, gaseous): Not determined.

- Ignition temperature:

Decomposition temperature: Not determined.

- Auto igniting: Not determined.

- Danger of explosion: Product does not present an explosion hazard.

- Explosion limits:

Lower: Not determined.

Upper: Not determined.

- Vapor pressure: not applicable

- Density: Not determined.

- Relative density Not determined.

- Vapor density Not applicable.

- Evaporation rate Not applicable.

- Solubility in / Miscibility with

Water: Insoluble.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

- Solvent content:

Organic solvents: 0.0 %

VOC content: 0.0 g/l / 0.00 lb/gl

Solids content: 100.0 %

- Other information No further relevant information available.
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## SECTION 10. STABILITY AND REACTIVITY

- Reactivity No further relevant information available.
  - Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions No dangerous reactions known.
  - Conditions to avoid No further relevant information available.
  - Incompatible materials: No further relevant information available.
  - Hazardous decomposition products: No dangerous decomposition products known.
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## SECTION 11. TOXICOLOGICAL INFORMATION

- Information on toxicological effects
  - Acute toxicity:
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
  - Carcinogenic categories
  - IARC (International Agency for Research on Cancer)  
Substance is not listed.
  - NTP (National Toxicology Program)  
Substance is not listed.
  - OSHA-Ca (Occupational Safety & Health Administration)  
Substance is not listed.
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## SECTION 12. ECOLOGICAL INFORMATION

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability No further relevant information available.
  - Behavior in environmental systems:
  - Bioaccumulative potential No further relevant information available.
  - Mobility in soil No further relevant information available.
  - Additional ecological information:
  - General notes: Not known to be hazardous to water.
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
  - Other adverse effects No further relevant information available.
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## SECTION 13. DISPOSAL CONSIDERATIONS

- Waste treatment methods
- Recommendation:  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.
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## SECTION 14. TRANSPORT INFORMATION

- UN-Number
  - DOT, IMDG, IATA UN1588
  - UN proper shipping name
  - DOT, IATA Cyanides, inorganic, solid, n.o.s.
  - IMDG CYANIDES, INORGANIC, SOLID, N.O.S.
  - Transport hazard class(es)
  - DOT
  - Class 6.1 Toxic substances
  - Label 6.1
  - IMDG, IATA
  - Class 6.1 Toxic substances
  - Label 6.1
  - Packing group
  - DOT, IMDG, IATA III
  - Environmental hazards:
  - Marine pollutant: No
  - Special precautions for user Not applicable.
  - EMS Number: F-A,S-A
  - Segregation groups Cyanides
  - Stowage Category A
  - Segregation Code SG35 Stow "separated from" acids.
  - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
  - Transport/Additional information:
  - DOT
  - Quantity limitations On passenger aircraft/rail: 100 kg  
On cargo aircraft only: 200 kg
  - IMDG
  - Limited quantities (LQ) 5 kg
  - Excepted quantities (EQ) Code: E1
  - Maximum net quantity per inner packaging: 30 g
  - Maximum net quantity per outer packaging: 1000 g
  - UN "Model Regulation": UN 1588 CYANIDES, INORGANIC, SOLID, N.O.S., 6.1, III
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## SECTION 15. REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- Section 355 (extremely hazardous substances):  
Substance is not listed.
- Section 313 (Specific toxic chemical listings):  
Substance is not listed.
- TSCA (Toxic Substances Control Act):  
Substance is listed.
- Proposition 65
- Chemicals known to cause cancer:  
Substance is not listed.

- Chemicals known to cause reproductive toxicity for females:  
Substance is not listed.
  - Chemicals known to cause reproductive toxicity for males:  
Substance is not listed.
  - Chemicals known to cause developmental toxicity:  
Substance is not listed.
  - Carcinogenic categories
  - EPA (Environmental Protection Agency)  
Substance is not listed.
  - TLV (Threshold Limit Value established by ACGIH)  
Substance is not listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)  
Substance is not listed.
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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.