SECTION 1. IDENTIFICATION

Product Name: Copper(II) Tetrafluoroborate Hexahydrate

Product Number: All applicable American Elements product codes, e.g. CU2-FBAT-018-C.6HYD

CAS #: 72259-10-0

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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification
Skin corrosion/irritation Category 1 Sub-category A
Serious eye damage/eye irritation Category 1

Label elements
Signal word Danger

Hazard statements Causes severe skin burns and eye damage

Symbols/Pictograms

Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
Immediately 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
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
Precautionary Statements - Storage Store locked up
Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Hazards not otherwise classified (HNOC) N/A
Other Information
Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity.
NFPA
Health hazards -
Flammability -
Stability -
Physical and chemical -
properties
HMIS
Health hazards 3
Flammability 0
Physical hazards 1
Personal protection -

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No 72259-10-0
Molecular Weight 345.25 (237.15anhy)
Formula Cu(BF4)2·6H2O
Chemical Name CAS No weight-% Oral LD50 dermal LD50 Inhalation LC50 Copper(II) tetrafluoroborate hexahydrate
72259-10-0 >98 - - -

SECTION 4. FIRST AID MEASURES

First Aid Measures
General advice Consult a physician if necessary. Remove to fresh air.
Eye contact Wash with plenty of water.
Skin Contact Wash skin with soap and water.
Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.
Most important symptoms and effects, both acute and delayed
Symptoms No data available.
Indication of any immediate medical attention and special treatment needed
SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media
Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media None.
Specific hazards arising from the chemical
Specific hazards arising from the chemical
No data available.
Hazardous combustion products Hydrogen fluoride.
Explosion data
Sensitivity to Mechanical Impact No data available.
Sensitivity to Static Discharge No data available.
Protective equipment and precautions for firefighters
Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal precautions Ensure adequate ventilation, especially in confined areas.
Environmental precautions
Environmental precautions See Section 12 for additional Ecological Information.
Methods and material for containment and cleaning up
Methods for containment Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature.
Incompatible materials None known based on information supplied.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls
Engineering Controls
Showers
Eyeswash stations
Ventilation systems

Individual protection measures, such as personal protective equipment
Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin and Body Protection
Wear protective gloves and protective clothing.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State
Solid

Appearance
No data available

Odor
No data available

Property Values

- pH
No data available
- Melting point/freezing point
No data available
- Boiling point
No data available
- Flash point
No data available
- Density
No data available
- Evaporation rate
No data available
- Upper flammability limits
No data available
- Lower flammability limit
No data available
- Vapor pressure
No data available
- Vapor density
No data available
- Specific gravity
No data available
- Water solubility
No data available
- Solubility in other solvents
No data available
- Partition coefficient
No data available
- Autoignition temperature
No data available
- Decomposition temperature
No data available
- Kinematic viscosity
No data available
- Explosive properties
No data available
- Oxidizing properties
No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity
N/A

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization
No data available.

Conditions to avoid
Extremes of temperature and direct sunlight.
Incompatible materials Strong oxidizing agents. 
Hazardous Decomposition Products Hydrogen fluoride.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure 
Inhalation No data available. 
Eye contact No data available. 
Skin Contact No data available. 
Ingestion No data available. 

Information on toxicological effects 
Symptoms No data available. 
Delayed and immediate effects as well as chronic effects from short and long-term exposure 
Chronic Toxicity No data available. 

Numerical measures of toxicity - Product Information 
Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity May cause long lasting harmful effects to aquatic life 
100% of the mixture consists of components(s) of unknown hazards to the aquatic environment. 
Persistence and degradability No data available. 
Bioaccumulation No data available. 
Mobility No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations. 
Contaminated packaging Do not reuse container. 
US EPA Waste Number D002

SECTION 14. TRANSPORT INFORMATION

DOT 
UN/ID no UN3260 
Hazard Class 8 
Packing Group III 
Proper shipping name Corrosive solid, acidic, inorganic, n.o.s.* 
Description UN3260, Corrosive solid, acidic, inorganic, n.o.s.*, 8, III 
Emergency Response Guide Number 154 
IMDG 
UN/ID no UN3260 
Hazard Class 8 
Packing Group III 
Proper shipping name Corrosive solid, acidic, inorganic, n.o.s.* 
Description UN3260, Corrosive solid, acidic, inorganic, n.o.s.*, 8, III
Special Provisions IB8, IP3, T1, TP33  
EmS-No F-A, S-B  
IATA  
UN/ID no UN3260  
Hazard Class 8  
Packing Group III  
Proper shipping name Corrosive solid, acidic, inorganic, n.o.s.*  
Description UN3260, Corrosive solid, acidic, inorganic, n.o.s.*, 8, III

SECTION 15. REGULATORY INFORMATION

International Inventories
All of the components in the product are on the following Inventory lists
No data available
X - Listed
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
US Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories
Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No
CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
US State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations

SECTION 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 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.