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|---|--|------------------------------|
| Ammonium Tetrachlorocuprate(II) Dihydrate | | Pricing > |
| Signal Word | Warning | |
| Hazard Statements | H315-H319-H335 | |
| Hazard Codes | Xi | |
| Risk Codes | 36/37/38 | |
| Safety Statements | 26-36 | |
| RTECS Number | N/A | |
| Transport Information | N/A | |
| WGK Germany | 3 | |
| GHS Pictograms | GHS07 Exclamation Point  | |

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SAFETY DATA SHEET

Date Accessed: 05/19/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #10060-13-6

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:
Domestic, North America +1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification

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

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2

Specific target organ toxicity (single exposure)

Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word:

Warning

Hazard Statements

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste

disposal plant
Hazards not otherwise classified (HNOC)
None identified

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component:
Cuprate(2-), tetrachloro-, diammonium, dihydrate
CAS-No.: 10060-13-6
Weight %: <=100

SECTION 4. FIRST AID MEASURES

General Advice If symptoms persist, call a physician.
Eye Contact Rinse immediately with plenty of water,
also under the eyelids, for at least 15 minutes. Get
medical attention.

Skin Contact Wash off immediately with plenty of
water for at least 15 minutes. If skin irritation persists,
call a physician.

Inhalation Remove to fresh air. If not breathing, give
artificial respiration. Get medical attention if
symptoms occur.

Ingestion Clean mouth with water and drink
afterwards plenty of water. Get medical attention if
symptoms occur.

Most important symptoms and effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media Not combustible.

Unsuitable Extinguishing Media No information
available

Flash Point No information available

Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information
available

Sensitivity to Static Discharge No information
available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat
and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). Hydrogen chloride. Ammonia.
Copper oxides.
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.
NFPA
Health - 2
Flammability - 0
Instability - 0
Physical hazards -

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation.
Use personal protective equipment as required. Avoid
dust
formation.
Environmental Precautions Should not be released
into the environment. See Section 12 for additional
Ecological
Information. Do not allow material to contaminate
ground water system. Do not flush into
surface water or sanitary sewer system.
Methods for Containment and Clean Up
Sweep up and shovel into suitable containers for
disposal. Keep in suitable, closed
containers for disposal.

SECTION 7. HANDLING AND STORAGE

Handling Wear personal protective equipment/face
protection. Ensure adequate ventilation. Avoid
ingestion and inhalation. Avoid dust formation. Do not
get in eyes, on skin, or on clothing.
Storage Keep containers tightly closed in a dry, cool
and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures Ensure that eyewash stations
and safety showers are close to the workstation
location.
Personal Protective Equipment
Eye/face Protection Wear appropriate protective
eyeglasses or chemical safety goggles as described
by OSHA's eye and face protection regulations in 29

CFR 1910.133 or European Standard EN166.
Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard
EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid Crystalline
Appearance No information available
Odor No information available
Odor Threshold No information available
pH No information available
Melting Point/Range 110 °C / 230 °F
Boiling Point/Range No information available
Flash Point No information available
Evaporation Rate Not applicable
Flammability (solid,gas) No information available
Flammability or explosive limits
Upper No data available
Lower No data available
Vapor Pressure No information available
Vapor Density Not applicable
Specific Gravity 1.993 g/cm³
Solubility No information available
Partition coefficient; n-octanol/water No data available
Autoignition Temperature No information available
Decomposition Temperature No information available
Viscosity Not applicable
Molecular Formula $\text{CuCl}_2 \cdot 2\text{NH}_4 \text{Cl} \cdot 2\text{H}_2\text{O}$
Molecular Weight 277.46 (241.43anhy)

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available
Stability Stable under normal conditions.
Conditions to Avoid Incompatible products.
Incompatible Materials Oxidizing agent
Hazardous Decomposition Products Nitrogen oxides (NO_x), Hydrogen chloride, Ammonia, Copper oxides
Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Component Information

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed

No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability based on information available. May persist

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators

must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazard Categories See section 2 for more information
Clean Air Act Not applicable
OSHA - Occupational Safety and Health Administration
Not applicable
CERCLA Not applicable
California Proposition 65 This product does not contain any Proposition 65 chemicals.
U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N
U.S. Department of Homeland This product does not contain any DHS chemicals.
Other International Regulations
Mexico - Grade No information available

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

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