C5808 -03
Cupric Acetate, Monohydrate
Effective: 03/09/92
Page: 1
Issued: 07/10/93

J.T.BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

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SECTION I - PRODUCT IDENTIFICATION
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Product Name: Cupric Acetate, Monohydrate
Common Synonyms: Copper(II)Acetate, Monohydrate; Acetic Acid, Copper(2+)Salt, Monohydrate
Chemical Family: Copper Compounds
Formula: \((\text{CH}_3\text{COO})_2\text{Cu} \cdot \text{H}_2\text{O}\)
Formula Wt.: 199.64
CAS No.: 6046-93-1
NIOSH/RTECS No.: AG3500000
Product Use: Laboratory Reagent
Product Codes: 1766, 5268, 5079, 5267, 5246

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PRECAUTIONARY LABELING
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BAKER SAF-T-DATA System

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate</td>
<td>None</td>
<td>Slight</td>
<td>Moderate</td>
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</table>

Laboratory Protective Equipment

- Goggles
- Lab Coat
- Vented Hood
- Proper Gloves

U.S. Precautionary Labeling

WARNING!

CAUSES IRRITATION. HARMFUL IF SWALLOWED.
Avoid contact with eyes, skin, clothing. Keep in tightly closed container. Wash thoroughly after handling.

Continued on Page: 2
C5808 -03  Cupric Acetate, Monohydrate  Page: 2
Effective: 03/09/92  Issued: 07/10/93

PRECAUTIONARY LABELING (CONTINUED)

International Labeling

Harmful by inhalation, in contact with skin and if swallowed. Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SAF-T-DATA* Storage Color Code: Orange (general storage)

SECTION II - COMPONENTS

Component  CAS No.  Weight %  OSHA/PEL  ACGIH/TLV
Cupric Acetate, Monohydrate  6046-93-1  90-100  N/E  N/E

SECTION III - PHYSICAL DATA

Boiling Point: 240°C (464°F)  DECOMPOSES  Vapor Pressure (mmHg): N/A
(at 760 mm Hg)
Melting Point: 115°C (239°F)  DECOMPOSES  Vapor Density (air=1): 6.9
(at 760 mm Hg)
Specific Gravity: 1.88  (H₂O=1)
Evaporation Rate: N/A
Solubility(H₂O): Moderate (1-10%)
Volatiles by Volume: 0
(21°C)

pH: N/A
Odor Threshold (ppm): N/A
Physical State: Solid
Coefficient Water/Oil Distribution: N/A
Appearance & Odor: Dark green crystals.
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Effective: 03/09/92
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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A  NFPA 704M Rating: 0-0-0
Autoignition Temperature: N/A
Flammable Limits: Upper - N/A  Lower - N/A

Fire Extinguishing Media
Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards
NOTE: Decomposes at boiling point.

Toxic Gases Produced
carbon monoxide, carbon dioxide

Explosion Data-Sensitivity to Mechanical Impact
None identified.

Explosion Data-Sensitivity to Static Discharge
None identified.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): 1 mg/m³
Short-Term Exposure Limit (STEL): Not Established
Permissible Exposure Limit (PEL): Not Established

Toxicity of components
Oral Rat LD₅₀ for Cupric Acetate, Monohydrate 710 mg/kg
Carcinogenicity: NTP: No  IARC: No  Z List: No  OSHA Reg: No

Carcinogenicity
None identified.
C5808 -03 Cupric Acetate, Monohydrate

Effective: 03/09/92

Reproductive Effects
None identified.

Effects of Overexposure

INHALATION: irritation of upper respiratory tract

SKIN CONTACT: irritation

EYE CONTACT: irritation

SKIN ABSORPTION: none identified

INGESTION: nausea, vomiting, unconsciousness

CHRONIC EFFECTS: none identified

Target Organs
respiratory system, skin, liver, kidneys

Medical Conditions Generally Aggravated by Exposure
Wilson's disease

Primary Routes of Entry
inhalation, ingestion, skin contact, eye contact

Emergency and First Aid Procedures

INGESTION: CALL A PHYSICIAN. If swallowed, if conscious, give large amounts of water. Induce vomiting.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT: In case of contact, flush skin with water.

EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No

Continued on Page: 5
C5808 -03 Cupric Acetate, Monohydrate
Effective: 03/09/92

SECTION V - HEALTH HAZARD DATA (CONTINUED)

Extremely Hazardous Substance: No
CERCLA Hazardous Substance: Yes Contains Cupric Acetate (RQ = 100 LBS)
SARA 313 Toxic Chemicals: Yes Contains Copper
Generic Class: Generic Class Removed from CFR: 7/1/91
TSCA Inventory: Yes

SECTION VI - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur
Conditions to Avoid: none documented
Incompatibles: none identified
Decomposition Products: carbon monoxide, carbon dioxide

SECTION VII - SPILL & DISPOSAL PROCEDURES

Steps to be Taken in the Event of a Spill or Discharge
Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure
Dispose in accordance with all applicable federal, state, and local environmental regulations.

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use general or local exhaust ventilation to meet TLV requirements.

Respiratory Protection: Respiratory protection required if airborne concentration exceeds TLV. At concentrations up to 7 ppm, a dust/mist respirator is recommended. Above this level, a self-contained breathing apparatus is advised.

Eye/Skin Protection: Safety goggles, uniform, rubber gloves are recommended.
C5808-03  Cupric Acetate, Monohydrate
Effective: 03/09/92

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAFE-T-DATA: Storage Color Code: Orange (general storage)

Storage Requirements
Keep container tightly closed. Suitable for any general chemical storage area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)
Proper Shipping Name: Hazardous substance, solid, n.o.s. (Cupric Acetate)
Hazard Class: ORM-E
UN/NA: NA9188 Reportable Quantity: 100 LBS.
Labels: NONE
Regulatory References: 49CFR 172.101; 173.500; 173.510

International (I.M.D.O.)
Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)
Marine Pollutants: No

AIR (I.C.A.O.)
Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)
U.S. Customs Harmonization Number: 29152900007

N/A  = Not Applicable or Not Available
N/E  = Not Established

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This
Continued on Page: 7
C5808 -03  Cupric Acetate, Monohydrate
Effective: 03/09/92

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chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label.

BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.

Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

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Approved by Quality Assurance Department.