

124431  
DOD Hazardous Materials Information System

DoD 6050.5-L

AS OF July 1998

FSC: 6810  
NIIN: 002411203  
Manufacturer's CAGE: 13873  
Part No. Indicator: A  
Part Number/Trade Name: CUPRIC SULFATE,ACS

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General Information

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Item Name: CUPRIC SULFATE,ACS  
Company's Name: DEFENSE GENERAL SUPPLY CENTER  
Company's Street: 8000 JEFFERSON DAVIS HIGHWAY  
Company's P. O. Box:  
Company's City: RICHMOND  
Company's State: VA  
Company's Country: US  
Company's Zip Code: 23297-5680  
Company's Emerg Ph #: 804-279-4371  
Company's Info Ph #: 804-279-4371  
Distributor/Vendor # 1: PENRECO, DIV OF PENNZOIL CO  
Distributor/Vendor # 1 Cage: 86459  
Distributor/Vendor # 2:  
Distributor/Vendor # 2 Cage:  
Distributor/Vendor # 3:  
Distributor/Vendor # 3 Cage:  
Distributor/Vendor # 4:  
Distributor/Vendor # 4 Cage:  
Safety Data Action Code:  
Safety Focal Point: D  
Record No. For Safety Entry: 003  
Tot Safety Entries This Stk#: 015  
Status: SD  
Date MSDS Prepared: 06DEC93  
Safety Data Review Date: 06DEC93  
Supply Item Manager: CX  
MSDS Preparer's Name: DGSC-SSH  
Preparer's Company: DEFENSE GENERAL SUPPLY CENTER  
Preparer's St Or P. O. Box: 8000 JEFF-DAVIS HWY.  
Preparer's City: RICHMOND  
Preparer's State: VA  
Preparer's Zip Code: 23297-5680

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Other MSDS Number:  
MSDS Serial Number: BSCTL  
Specification Number: O-C-265  
Spec Type, Grade, Class: NONE  
Hazard Characteristic Code: J7  
Unit Of Issue: BT  
Unit Of Issue Container Qty: 500 GMS  
Type Of Container: BOTTLE  
Net Unit Weight: 1.1LBS

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NRC/State License Number: N/R  
Net Explosive Weight: N/R  
Net Propellant Weight-Ammo: N/R  
Coast Guard Ammunition Code: N/R

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Ingredients/Identity Information

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Proprietary: NO  
Ingredient: CUPRIC SULFATE,PENTAHYDRATE AND/OR CUPRIC SULFATE,  
ANHYDROUS[>98%]  
Ingredient Sequence Number: 01  
Percent: UNKNOWN  
Ingredient Action Code:  
Ingredient Focal Point: D  
NIOSH (RTECS) Number: GL8900000  
CAS Number: 7758-99-8  
OSHA PEL: 1 MG/M3(CU)DUST/MIST  
ACGIH TLV: 1 MG/M3(CU)DUST/MIST  
Other Recommended Limit: NONE RECOMMENDED

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Proprietary: NO  
Ingredient: CUPRIC SULFATE (SARA III) AND/OR CUPRIC SULFATE,PENTAHYDRA  
TE  
[>98%]  
Ingredient Sequence Number: 02  
Percent: UNKNOWN  
Ingredient Action Code:  
Ingredient Focal Point: D  
NIOSH (RTECS) Number: GL8800000  
CAS Number: 7758-98-7  
OSHA PEL: 1 MG CU/M3  
ACGIH TLV: 1 MG/M3; 9293  
Other Recommended Limit: NONE RECOMMENDED

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Proprietary: NO  
Ingredient: SULFURIC ACID (SARA III)  
Ingredient Sequence Number: 03  
Percent: TRACE  
Ingredient Action Code:  
Ingredient Focal Point: D  
NIOSH (RTECS) Number: WS5600000  
CAS Number: 7664-93-9  
OSHA PEL: 1 MG/M3  
ACGIH TLV: 1 MG/M3; 9293  
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics

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Appearance And Odor: CRYSTALS OR POWDER; ANHYDROUS-GRAY-WHITE/5H20-BLUE  
;NO  
ODOR  
Boiling Point: N/K  
Melting Point: 560C DECOMP  
Vapor Pressure (MM Hg/70 F): N/K  
Vapor Density (Air=1): N/K

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Specific Gravity: 2.284 (5H20)

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FOR  
SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.  
Special Fire Fighting Proc: WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING  
APPARATUS. USE WATER SPRAY TO DISPERSE VAPOR.  
Unusual Fire And Expl Hazrds: IF DRY HEATED ABOVE 600C ( 1110F), IT WILL  
FORM SULFUR DIOXIDE. IF WATER IS USED, CARE SHOULD BE USED TO KEEP SUCH  
WATER OUT OF STREAMS OR OTHER WATER BODIES.

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Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): HUMIDITY,MOISTURE(THE 5H2O IS HYDROSCOPIC).  
Materials To Avoid: NONE KNOWN WHEN PRODUCT REMAINS DRY.SOLUTIONS ARE  
CORROSIVE TO MILD STEEL.  
Hazardous Decomp Products: SULFUR DIOXIDE AT > 1100F  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NONE

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Health Hazard Data

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LD50-LC50 Mixture: LD50 ORAL RAT=960 MG/KG-5H2O/300MG/KG-AN  
Route Of Entry - Inhalation: NO  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: NO  
Health Haz Acute And Chronic: THIS MSDS IS FOR BOTH ANHYDROUS AND  
PENTAHYDRATE OF CUSO4.THE 5H2O LOOSES 2MOLS H2O @30C;4MOLS @110C AND  
BECOMES ANHYDROUS @250C.THIS MATERIEL IS STRONGLY IRRITATING![MERCK 9]  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: ANHYDROUS:RTECS HAS INVESTIGATED AS  
TUMORIGEN,MUTAGEN,REPRODUCTIVE EFFECTOR.5H20:TUMORIGEN,MUTAGEN.  
Signs/Symptoms Of Overexp: DUST PRODUCES IRRITATION BY INHALATION. IT  
IS  
ALSO IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. THE

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MATERIAL IS TOXIC ORALLY AND CAUSES GASTROINTESTINAL DISTURBANCES. IT  
IS  
CORROSIVE AND MAY CAUSE DAMAGE TO THE EYES.

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Med Cond Aggravated By Exp: PERSONS WITH PRE-EXISTING RESPIRATORY AILMENTS

MAY BE AT INCREASED RISK FROM EXPOSURE.

Emergency/First Aid Proc: EYE:FLUSH WITH WATER FOR 15 MINUTES;HOLD EYE LIDS

OPEN.SKIN:FLUSH WITH WATER.INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR

IF NEEDED. ORAL:DRINK LARGE AMOUNT OF WATER/MILK. SEEK MEDICAL ATTENTION.IN

ALL CASES SEEK MEDICAL ATTENTION.NOTE TO PHYSICIAN:PROBABLE MUCOSAL DAMAGE

MAY CONTRAINDICATE USE OF GASTRIC LAVAGE.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: SWEEP UP. DO NOT RAISE DUST. WASH AND VENTILATE SPILL SITE AFTER PICKUP IS COMPLETE. IF PRODUCT IS IN SOLUTION,

ADD LIME OR SODA ASH TO FORM INSOLUBLE COPPER SALTS AND THEN DISPOSE IN AN

APPROVED LANDFILL.

Neutralizing Agent: USE LIME OR SODA ASH TO FORM INSOLUBLE COPPER SALTS.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS OR CONTACT AN APPROVED/LICENSED DISPOSAL AGENCY.

Precautions-Handling/Storing: STORAGE- STORE MATERIAL AT ROOM TEMPERATURE.

KEEP STORAGE CONTAINER TIGHTLY CLOSED.

Other Precautions: TOXIC. DO NOT RAISE DUST. AVOID CONTACT WITH EYES AND

SKIN. AVOID BREATHING DUST. WASH THOROUGHLY AFTER HANDLING MATERIAL. KEEP

AWAY FROM REACH OF CHILDREN.

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APPROPRIATE LABORATORY COAT TO COVER EXPOSED SKIN

Work Hygienic Practices: DO NOT PERMIT EATING OR DRINKING NEAR THIS MATERIAL.

Suppl. Safety & Health Data: THIS MSDS WAS WRITTEN FOR A WALL-TO-WALL TSR.REQUESTOR HAS SPECIFIED PENRECO AS MFR.HMIS CONTACTED COMPANY;THIS ITEM

IS NOT IN THEIR PRODUCT RANGE.COPPER SULFATE REFERS TO TWO ITEMS:ANHYDROUS

AND PENTAHYDRATE.THIS MSDS IS A REVIEW OF BOTH.

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Transportation Data

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Transportation Action Code:

Transportation Focal Point: D

Trans Data Review Date: 93104

DOT PSN Code: ZZZ

DOT Symbol: N/R

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

DOT Class: N/R

DOT ID Number: N/R

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DOT Pack Group: N/R

DOT Label: N/R

DOT/DoD Exemption Number: N/R

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

IMO Regulations Page Number: N/R

IMO UN Number: N/R

IMO UN Class: N/R

IMO Subsidiary Risk Label: N/R

IATA PSN Code: ZZZ

IATA UN ID Number: N/R

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

IATA UN Class: N/R

IATA Subsidiary Risk Class: N/R

IATA Label: N/R

AFI PSN Code: ZZZ

AFI Symbols:

AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

AFI Class: N/R

AFI ID Number: N/R

AFI Pack Group: N/R

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AFI Label: N/R  
AFI Special Prov:  
AFI Basic Pac Ref:  
MMAC Code:  
N.O.S. Shipping Name:  
Additional Trans Data: NONE

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Disposal Data

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Disposal Data Action Code:  
Disposal Data Focal Point:  
Disposal Data Review Date:  
Rec # For This Disp Entry:  
Tot Disp Entries Per NSN:  
Landfill Ban Item:  
Disposal Supplemental Data:  
1st EPA Haz Wst Code New:  
1st EPA Haz Wst Name New:  
1st EPA Haz Wst Char New:  
1st EPA Acute Hazard New:  
2nd EPA Haz Wst Code New:  
2nd EPA Haz Wst Name New:  
2nd EPA Haz Wst Char New:  
2nd EPA Acute Hazard New:  
3rd EPA Haz Wst Code New:  
3rd EPA Haz Wst Name New:  
3rd EPA Haz Wst Char New:  
3rd EPA Acute Hazard New:

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Label Data

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Label Required: YES  
Technical Review Date: 06DEC93  
Label Date:  
MFR Label Number: UNKNOWN  
Label Status: F  
Common Name: CUPRIC SULFATE,ACS OR USP GRADE  
Chronic Hazard: N/P  
Signal Word: WARNING!  
Acute Health Hazard-None:  
Acute Health Hazard-Slight:

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Acute Health Hazard-Moderate: X

Acute Health Hazard-Severe:

Contact Hazard-None:

Contact Hazard-Slight:

Contact Hazard-Moderate: X

Contact Hazard-Severe:

Fire Hazard-None: X

Fire Hazard-Slight:

Fire Hazard-Moderate:

Fire Hazard-Severe:

Reactivity Hazard-None: X

Reactivity Hazard-Slight:

Reactivity Hazard-Moderate:

Reactivity Hazard-Severe:

Special Hazard Precautions: THIS MSDS IS FOR BOTH ANHYDROUS AND PENTAHYDRATE OF  $\text{CUSO}_4$ .THE  $5\text{H}_2\text{O}$  LOOSES 2MOLS  $\text{H}_2\text{O}$  @30C;4MOLS @110C AND BECOMES ANHYDROUS @250C.THIS MATERIEL IS STRONGLY IRRITATING![MERCK 9] STORAGE- STORE MATERIAL AT ROOM TEMPERATURE. KEEP STORAGE CONTAINER TIGHTLY

CLOSED. FIRST AID: EYE:FLUSH WITH WATER FOR 15 MINUTES;HOLD EYELIDS OPEN.

SKIN:FLUSH WITH WATER.INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF

NEEDED. ORAL:DRINK LARGE AMOUNT OF WATER/MILK. SEEK MEDICAL ATTENTION. IN

ALL CASES SEEK MEDICAL ATTENTION.NOTE TO PHYSICIAN:PROBABLE MUCOSAL DAMAGE

MAY CONTRAINDICATE USE OF GASTRIC LAVAGE.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: DEFENSE GENERAL SUPPLY CENTER

Label Street: 8000 JEFFERSON DAVIS HIGHWAY

Label P.O. Box:

Label City: RICHMOND

Label State: VA

Label Zip Code: 23297-5680

Label Country: US

Label Emergency Number: 804-279-4371

Year Procured: