

HACH CO. -- COPPER SULFATE -- 6810-00-241-1203

===== Product Identification =====

Product ID:COPPER SULFATE

MSDS Date:05/16/1990

FSC:6810

NIIN:00-241-1203

MSDS Number: BWFLC

=== Responsible Party ===

Company Name:HACH CO.

Address:100 DAYTON RD.

Box:907

City:AMES

State:IA

ZIP:50010-6402

Country:US

Info Phone Num:800-227-4224

Emergency Phone Num:303-623-5716

CAGE:4T252

=== Contractor Identification

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Company Name:HACH COMPANY

Address:100 DAYTON RD.

Box:907

City:AMES

State:IA

ZIP:50010

Country:US

Phone:800-227-4224

CAGE:4T252

===== Composition/Information on Ingredients =====

Ingred Name:CUPRIC SULFATE PENTAHYDRATE

CAS:7758-99-8

RTECS #:GL8900000

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 300MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcino

genicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:**POISON** EYES:MAY CAUSE IRRITATION.

SKIN:MAY CAUSE IRRITATION. MAY BE DERMALLY ABSORBED IN HARMFUL AMOUNTS. INGEST:MAY CAUSE GI TRACT IRRITATION. INHAL:MAY CAUSE RESPIRATORY IRRITATION. CHRONIC:MAY DAMAGE LIVER, KIDNEY, GI AND RESPIRATORYTRACT.

Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.

Effects of Overexposure:SYSTEMIC POISONING:VOMITING, DIARRHEA, SHOCK.

CHRONIC EXPOSURE MAY CAUSE DISCOLORATION OF SKIN AND HAIR.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN, LIVER, RESPIRATORY AILMENTS OR WILSON'S DISEASE MAY BE AT INCREASED RISK FROM EXPOSURE.

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===== First Aid Measures =====

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING; WASH WITH WATER.
EYES:FLUSH WITH WATER FOR 15 MINUTES. INHAL:REMOVE TO FRESH AIR.
GIVE OXYGEN OR ARTIFICIAL RESPIRATION
IF NEEDED. INGEST:DO NOT
INDUCE VOMITING. GET PROMPT QUALIFIED MEDICAL ATTENTION.
IFCONSCIOUS, GIVE LARGE AMOUNTS OF WATER OR MILK.

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===== Fire Fighting Measures =====

Flash Point:NONE
Extinguishing Media:WATER
Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.
Unusual Fire/Explosion Hazard:FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

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===== Accidental Release Measures =====

Spi
Il Release Procedures:SWEEP OR VACUUM; DO NOT CREATE DUST; PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL. CLEAN WITH WATER.
Neutralizing Agent:NOT APPLICABLE.

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===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE.
Other Precautions:FOLLOW LABEL DIRECTIONS. AVOID BREATHING DUST. AVOID SKIN AND EYE CONTACT.

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===== Exposure Controls/Personal Prote

ction =====

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A NIOSH/MSHA APPROVED RESPIRATOR FOR DUST.

Ventilation:USE LOCAL EXHAUST.

Protective Gloves:RUBBER

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:PROVIDE A LOCAL EYE WASH STATION.

Work Hygienic Practices:USE REASONABLE CARE IN HANDLING THIS PRODUCT.

WASH HANDS AFTER USE AND BEFORE EATING.

Supplemental Safety and Health

****POISON--IRRITANT**** THE MELTING POINT(

30C) ON THIS MSDS IS FOR THE

LOSS OF 2MOLS H²O;IT LOOSES 4MOLS AT 110C;IT BECOMES ANHYDROUS AT 250C(MERCK#9).

===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:>400.C, 752.F

Melt/Freeze Pt:=30.C, 86.F

Spec Gravity:2.286

pH:4@0.2M

Solubility in Water:COMPLETE

Appearance and Odor:CRYSTALS;BLUE;ODORLESS

Percent Volatiles by Volume:NIL

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

HYDRO

XYLAMINE OR MAGNESIUM.

Stability Condition to Avoid:HIGH HEAT,AIR(DEHYDRATES).

Hazardous Decomposition Products:OXIDES OF SULFUR,CUPRIC OXIDE.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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