



SECTION I. IDENTIFICATION

PRODUCT NAME: **PERCO COPPER SWEETENING CATALYST**

PROCESSORS NAME: Chemical Products Industries, Inc., 7649 Southwest 34th Street,
Oklahoma City, OK 73179, (405/ 745-2070)

SYNONYMS: NONE ESTABLISHED
CHEMICAL NAME: MIXTURE
CHEMICAL FAMILY: MIXTURE
CHEMICAL FORMULA: MIXTURE
CAS REG. NO.: MIXTURE
PRODUCT NO.: NOT ESTABLISHED

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable provisions and restrictions of 40 CFR, section 721 and 723.250.

SECTION II. COMPONENTS

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% BY WT</u>
-Copper Sulfate	1344-73-6	1mg/m3	1mg/m3	10-25%
-Sodium Chloride	7647-14-5	NE	NE	5-20%
-Fuller Earth or Clay	8031-18-3			
Containing:				
Alpha-Quartz	14808-60-7	0.1mg/m3	0.1mg/m3*	approx. 10
Cristobalite	14464-46-1	0.05mg/m3	0.05mg/m3*	approx. 5

*Respirable Dust, NA: Not Applicable, NE: Not Established

SECTION III. PERSONAL PROTECTION INFORMATION

Respiratory Protection: For concentrations exceeding the recommended exposure level, use NIOSH/MSHA approved air purifying respirator. When entry into or exit from concentrations of unknown exposure, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA).

Ventilation: Use adequate ventilation to control exposure below recommended levels.

Eye Protection: Use safety glasses with side shields. For splash protection use chemical goggles and face shield.

Skin Protection: Use full-body, long sleeved garments. Use gloves impervious to the material being used (neoprene or rubber). Use boots impervious to the material being used. (Do not wear leather boots.)

Work and Hygienic Practices: Observe good personal hygiene. Wash after handling.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of and industrial hygienist or other qualified professional be sought.

SECTION IV. HANDLING AND STORAGE PRECAUTIONS

Do not get into eyes on skin or on clothing. Do not breathe vapor, mist fume or dust. Wear protective equipment an/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Immediately remove and launder contaminated clothing before reuse. Use only with adequate ventilation.

Store in closed containers. Store in a well-ventilated area.

SECTION V. REACTIVITY DATA

Stability:	Stable under ordinary conditions of use and storage.
Conditions to avoid:	Not Established
Incompatibility:	Not Established
Hazardous Decomposition or By-products:	Copper oxides formed when burned.
Hazardous Polymerization:	Will not occur

SECTION VI. HEALTH HAZARD DATA

Recommended Exposure Limits: See Section B

Acute Effects of Overexposure:

Eye: May be severely irritating. Dusts left in the eye untreated may cause conjunctivitis, ulceration and turbidity of the cornea.

Skin: May be moderately to severely irritating. Repeated exposure to the dust may cause itching, erythema and dermatitis.

Inhalation: May cause upper respiratory tract irritation. Repeated exposures above permissible exposure levels can cause congestion and silicosis which results in difficulty breathing and formation of fibrous tissue in the lungs.

Ingestion: May cause salivation, nausea, vomiting, gastric pain, hemorrhaging gastritis and diarrhea.

Subchronic and Chronic Effects of Overexposure:

Inhalation of dusts or mists of copper salts has produced lung injury, liver damage and red blood cell hemolysis in laboratory animals. Anemia has occurred in animals given copper salts orally.

Chronic inhalation of dust containing crystalline silica may cause silicosis, a progressive pulmonary fibrosis which may be associated with significantly impaired pulmonary function cardiopulmonary impairment and death. Symptoms may progress after dust exposure ceases. Silicosis typically results from silica dust exposure over many years.

Crystalline silica, a common component of sand, has been classified as probably carcinogenic for humans (2A) by the International Agency for Research on Cancer (IARC).

Other Health Effect:

Workers inhaling sprayed copper sulfate solutions 15 to 100 days of a year developed lung lesions. These lesions may regress or progress towards fibrosis and cancer. Extensive liver damage was also noted in these workers.

Health Hazard Categories:

	<u>Animal</u>	<u>Human</u>
Known Carcinogen	<u>X</u>	
Suspect Carcinogen		<u>X</u>
Mutagen		
Teratogen		
Allergic Sensitizer		<u>X</u>
Highly Toxic		
Toxic		
Corrosive		
Irritant	<u>X</u>	<u>X</u>
Target Organ Toxin	<u>X</u>	
Specify – Lung Toxin, Liver Toxin, Blood Toxin		

First Aid and Emergency Procedures:

IF INHALED, remove to fresh air and seek medical attention for any breathing difficulty.

IN CASE OF EYE CONTACT, flush eyes immediately with water for at least 15 minutes. Seek medical attention if irritation persists.

IF INGESTED, induce vomiting immediately by giving two glasses of water and sticking two fingers down throat. Never give anything by mouth to an unconscious person. Call physician immediately.

SECTION VII. PHYSICAL DATA

Boiling Point:	N/A	Specific Gravity:	3.8
Vapor Pressure (mm/Hg):	N/A	Melting Point:	N/A
Vapor Density (air=1):	N/A	Evaporation Rate:	N/A
Solubility in Water:	Insoluble	% Volatile by Volume:	13-20%
Appearance and Odor:	Gray Granules/Slight		

SECTION VIII. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Non-Flammable
Flammable Limits:	UEL – Not Applicable LEL – Not Applicable
Extinguishing Media:	Foam, Dry Chemical or carbon dioxide (CO ₂)
Special Fire Fighting Methods:	In the event of fire, take normal fire fighting precautions.
Unusual Fire and explosion hazards:	Copper oxides formed when burned.

SECTION IX. SPILL, LEAK AND DISPOSAL PROCEDURES

Precautions Required If Material is Released or Spilled:

Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Contain spill and control dusts. Vacuum up or spray with water and sweep up and place in impervious bags or container.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):

Manage at a permitted waste management facility.

SECTION X. DOT TRANSPORTATION

PROPER DOT SHIPPING NAME: Not Applicable
 - DOT HAZARD CLASS: Not Applicable
 - DOT ID# and Packing Group: Not Applicable
 - EMERGENCY RESPONSE GUIDE: Not applicable
 - PRODUCT NUMBER: Not Applicable
 - MARKING: Not Applicable
 - LABEL: Not Applicable
 - PLACARD for bulk only: Not Applicable

SECTION XI. RCRA CLASSIFICATION – UNADULTERATED PRODUCT AS A WASTE

Prior to disposal, consult your Environmental contact to determine if the TCLP (Toxicity Characteristics Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

SECTION XII. PROTECTION REQUIRED FOR WORK ON CONTAMINATED EQUIPMENT

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

SECTION XIII. HAZARD CLASSIFICATION

This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200).

Health Hazard (Section F): Yes

SECTION XIV. - SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section B).

Copper Compounds

SECTION XV. OTHER INFORMATION

APPROVED BY: _____
 Floyd E. Farha, Ph.D.

DATE: 2/14/2008
 SUPERCEDES: 1/1/2008

All terms and abbreviations have been defined in various government publications, or are standard chemical terms. The data and recommendations herein are based upon our own research and the research of others, and are believed to be accurate. However no warrantee or guarantee of their accuracy is made. The product is distributed without warrantee, expressed or implied, including the limited warranties of merchantability of fitness for a particular purpose.

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