

SECTION 1: PRODUCT INFORMATION**MANUFACTURER'S NAME / ADDRESS****CROSSFIELD PRODUCTS CORP.**

3000 E. HARCOURT ST.

RANCHO DOMINGUEZ, CA 90221

(310) 886-9100 (8:00a.m. to 5:00p.m. pacific time)

and

140 VALLEY RD.

ROSELLE PARK, NJ 07204

(908) 245-2800 (8:00 a.m. to 5:00 p.m. eastern time)

(800) 424-9300 (CHEMTREC)

TRADE NAMES: METALLIC PALE GOLD EVOLUTION,
METALLIC GOLD ILLUSION, METALLIC BRONZE MYSTIC**CHEMICAL FAMILY:** METALLIC PIGMENT**INTENDED USE:** DECORATIVE TOPCOATS**WHMIS CLASSIFICATION:** N/A

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PREPARED BY: J.W.ESSIG

SECTION 2: HAZARDOUS INGREDIENTS

PRODUCT/INGREDIENTS	Wt. %	CAS Number
COPPER	60-100	007440-50-8
ZINC	7-13	007440-66-6
STEARIC ACID	1-5	000057-11-4

INGREDIENTS (CAS)	EXPOSURE LIMITS (ppm)				
	OSHA		ACGIH		OTHER
	TWA	STEL	TWA	STEL	
007440-50-8	1.0mg/m ³	ND	1.0mg/m ³	ND	(SEE NOTE 1)
007440-50-8	5.0mg/m ³	ND	5.0mg/m ³	ND	(SEE NOTE 1)
000057-11-4	ND	ND	ND	ND	

LEGEND: (M) MAX. EXPOSURE LIMIT; (S) OCCUPATIONAL EXP. LIMIT; (R) SUPPLIERS REC. LIMIT, (+) PERCUTANEOUS RISK

NOTE 1: VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.

VOC: COMPONENT = 0gms/Liter

SECTION 3: PHYSICAL DATA**BOILING POINT:** NA**SPECIFIC GRAVITY:** 8.7**VAPOR PRESSURE:** NA**MELTING POINT:** ND**VAPOR DENSITY:** NA**EVAPORATION RATE:** NA

(AIR = 1)

(BUTYL ACETATE = 1)

SOLUBILITY IN WATER: ND**pH:** ND**COEFFICIENT of WATER/OIL DISTRIBUTION:** ND**APPEARANCE AND ODOR:** METAL POWDER, METALLIC ODOR**ODOR THRESHOLD:** ND**SECTION 4: FIRE AND EXPLOSION HAZARD****FLASH POINT:** NONE**CONDITIONS OF FLAMMABILITY:** NA**FLAMMABLE LIMITS:** LEL: NONE UEL: NONE**OSHA CLASS:** NOT REGULATED**DOT CLASS:** FLAMMABLE SOLID, 4.1**AUTO IGNITION TEMP.:** ND**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO₂, ALDEHYDES, ACIDS**SENSITIVITY TO IMPACT:** ND**SENSITIVITY TO STATIC DISCHARGE:** ND**EXTINGUISHING MEDIA:** : DRY CHEMICAL.**SPECIAL FIRE FIGHTING PROCEDURES:** NEVER USE WATER OF FIRE EXTINGUISHERS CONTAINING HALOGENATED HYDROCARBONS TO FIGHT A FIRE IN THIS PRODUCT. USE ONLY NFPA CLASS D FIRE EXTINGUISHER CONTAINING DRY CHEMICAL AND EQUIPPED WITH A LOW VELOCITY NOZZLE TO EXTINGUISH THE FIRE. FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** THIS PRODUCT CONTAINS BRASS POWDER THAT IS AN ALLOY OF COPPER AND ZINC. BURNING BRASS POWDER, SINCE IT CONTAINS ZINC, MAY REACT WITH WATER TO LIBERATE HYDROGEN GAS THAT WILL SPREAD THE FIRE. ALSO, BURNING BRASS MAY REACT WITH HALOGENATED HYDROCARBON EXTINGUISHING AGENTS RESULTING IN SERIOUS VIOLENT REACTIONS.

SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

HEALTH HAZARDS (ACUTE AND CHRONIC EXPOSURES)

EYES: ACUTE – MAY CAUSE MILD IRRITATION

CHRONIC – NO DATA (ND)

SKIN CONTACT: ACUTE – TRANSIENT IRRITATION, REDNESS AND DISCOMFORT.

CHRONIC – REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC REACTION/SENSITATION.

SKIN ABSORPTION: ACUTE-- ND

CHRONIC-- ND

INHALATION: ACUTE – IMMEDIATELY REMOVE PERSON TO FRESH AIR. IF UNCONSCIOUS, KEEP BREATHING PASSAGES OPEN AND HAVE MEDICAL ASSISTANCE SUMMONED IMMEDIATELY. IF BREATHING IS IRREGULAR OR HAS STOPPED START RESUSCITATION IMMEDIATELY; ADMINISTER OXYGEN IF AVAILABLE

CHRONIC – PERSISTENT COUGH. SHORTNESS OF BREATH.

INGESTION: ACUTE – DRINK SEVERAL GLASSES OF WATER AND CONSULT A PHYSICIAN.

CHRONIC -- ND

CONDITIONS AGGRAVATED BY EXPOSURE: PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASES (BRONCHITIS, ASTHMA, EMPHYSEMA), IMPAIRED PULMONARY FUNCTIONS, ESPECIALLY THOSE WITH OBSTRUCTIVE AIRWAY DISEASES.

CARCINOGENIC DATA: NTP: NO

OSHA: NO

IARC: NO

TERATOGENICITY: ND

MUTAGENICITY: ND

EMBRYOTOXICITY: ND

SYNERGISTIC MATERIAL: ND

OVEREXPOSURE EFFECTS: COPPER METAL IS SLIGHTLY TOXIC. INHALATION OF COPPER OR COPPER/ZINC ALLOY POWDER MAY CAUSE ACUTE IRRITATION OF THE NOSE AND/OR TRACHEA; MAY PRODUCE ACUTE GASTROENTERIC SYMPTOMS RESULTING IN VOMITING AND/OR INFLAMMATION, AND/OR MAY CAUSE ACUTE METAL FUME FEVER. EXPOSURE OF SKIN TO COPPER OR COPPER/ZINC ALLOY POWDER MAY CAUSE ACUTE DERMATITIS. IN THE CASE OF CHRONIC EXPOSURE. THE LIVER, KIDNEYS AND/OR SPLEEN MAY BE INJURED, AND/OR ANEMIA MAY DEVELOP. CHRONIC TOXICITY IS CONFINED TO THOSE PERSONS SUFFERING FROM PRE-EXISTING WILSON'S DISEASE.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH WATER FOR 15 MINUTES. AVOID RUBBING. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN: WASH WITH MILD SOAP AND WATER. SEEK MEDICAL TREATMENT WITH LONG EXPOSURES TO PRODUCT.

INHALATION: REMOVE AFFECTED PERSON TO FRESH AIR. SEEK MEDICAL ATTENTION IF COUGHING OR OTHER SYMPTOMS DO NOT SUBSIDE.

INGESTION: GIVE 3 – 4 GLASSES OF WATER. **DO NOT INDUCE VOMITING.** GET MEDICAL ATTENTION.

ACUTE TOXICITY EFFECTS: NO DATA.

SECTION 6: REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIAL TO AVOID): VERY STRONG OXIDIZING AGENTS MAY CAUSE FIRES. AVOID CONTACT WITH MINERAL ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: WHEN BURNING WILL EMIT COPPER OXIDE AND/OR ZINC OXIDE

HAZARDOUS POLYMERIZATION (REACTIVITY): WILL NOT OCCUR.

SECTION 7: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF MATERIAL IS RELEASED OR SPILLED: USE DUSTLESS METHODS (VACUUM) AND PLACE IN CLOSABLE CONTAINERS FOR DISPOSAL. WEAR PROTECTIVE EQUIPMENT AS SHOWN IN SECTION 8.

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.

ECOLOGICAL INFORMATION:

ECOTOXICITY: ND.

SECTION 8: SPECIAL PROTECTION INFORMATION

ENGINEERING CONTROLS: LOCAL OR GENERAL EXHAUST AS NEEDED.

RESPIRATORY PROTECTION: AS REQUIRED. NIOSH-MSHA APPROVED RESPIRATORS (PAPER DISPOSABLE; ½ OR FULL FACE PIECE AIR PURIFYING; SUPPLIED AIR – DEPENDENT UPON PEL LEVELS).

<5X PEL --- ANY DUST RESPIRATOR.

5<10 PEL – ANY DUST RESPIRATOR (EXCEPT SINGLE USE OR ¼ MASK). ANY FUME OR HIGH EFFICIENCY PARTICULATE FILTER RESPIRATOR.

10<50 PEL – HIGH EFFICIENCY PARTICULATE FILTER RESPIRATOR WITH FULL FACEPIECE.

50<500 PEL – POWERED AIR-PURIFYING RESPIRATOR WITH PARTICULATE FILTER.

>500 PEL --- SELF-CONTAINED BREATHING APPARATUS.

PROTECTIVE GLOVES: NITRILE RUBBER. (DO NOT RELY ON BARRIER CREAMS.)

EYE PROTECTION: GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: LONG SLEEVED SHIRTS AND PANTS. WHERE PROLONGED EXPOSURE TO UNHARDENED PRODUCT MAY OCCUR, WEAR IMPERVIOUS CLOTHING.

SECTION 9: HANDLING & STORAGE

GENERAL: STORE IN COOL, DRY SPACES. HANDLE IN MANNERS WHICH PREVENT DUST.

SECTION 10: SUPPLEMENTAL INFORMATION

HMS RATING

HEALTH 2

FLAMMABILITY 1

REACTIVITY 1

DOT PROPER SHIPPING NAME: NOT REGULATED.

HAZARD CLASS: NA

UN NUMBER: NA

PACKING GROUP: NA

IMO SHIPPING DATA: NOT REGULATED.

ICAO/IATA SHIPPING DATA: NOT REGULATED.

TSCA (TOXIC SUBSTANCE CONTROL ACT): ALL COMPONENTS ARE ON THE TSCA SUBSTANCE LIST.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT): ND

SARA TITLE III

SECTION 312 HAZARD CLASS: HAZARDOUS SUBSTANCE WITH DELAYED HEALTH EFFECTS.

SECTION 313 LISTED INGREDIENTS: COPPER, ZINC

CALIFORNIA PROPOSITION 65: The below list of compounds is known to the State of California to cause cancer, birth defects or other reproductive harm: NONE

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