

MATERIAL SAFETY DATA SHEET
METAL BLACKENING SOLUTION

EW #10113ZB - EW Metal Blackening Solution 1 Pint
FILE NO.:
MSDS DATE: 1/12/2011

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: METAL BLACKENING SOLUTION
PRODUCT CODES: 10113 ZB

SOLD BY: The Easthill Group d/b/a The Eastwood Company

ADDRESS: 263 Shoemaker Rd.
Pottstown, Pa. 19464

GENERAL INFORMATION: USA & Canada: (800) 345-1178
OUTSIDE USA: (610) 323-2200
EMERGENCY CONTACT: CHEMTREC: (800) 424-9300

PRODUCT USE: Metal patina and protection
PREPARED BY: Tec Service

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

<u>Name</u>	<u>CAS NO.</u>	<u>PEL</u>	<u>TLV</u>	<u>% WT</u>	<u>SARA 313</u>
SELENIUM DIOXIDE	7446-08-4	0.2 mg/m3	N/A	0-5	YES
COPPER SULFATE	7758-98-7	1 mg/m3	1 mg/m3	0-5	YES
NICKEL CHLORIDE	7718-54-9	1 mg/m3	0.1 mg/m3	0-5	
PHOSPHORIC ACID	7664-38-2	1 mg/m3	1 mg/m3	0-5	YES

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Corrosive to Skin, eyes, respiratory tract, and ingestion

ROUTES OF ENTRY: Skin, Skin Absorption, Eyes, Respiratory Tract, and Ingestion

POTENTIAL HEALTH EFFECTS

EYES: Corrosive! Vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.

SKIN: Corrosive! Can cause redness, pain, and severe skin burns. Concentrated solutions cause deep ulcers and discolor skin.

INGESTION: Corrosive and toxic! Can cause irritation and possible burns to the gastrointestinal tract. Ingestion hold a serious risk of poisoning.

INHALATION: Corrosive! Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract, headache, dizziness, nausea, and difficulty breathing.

ACUTE HEALTH HAZARDS: Corrosive to body tissues.

CHRONIC HEALTH HAZARDS: Possible liver, Kidney, and blood damage

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

CARCINOGENICITY

OSHA: No ACGIH: NO NTP: YES IARC: YES - Goup 1 OTHER:

SECTION 3 NOTES:

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SECTION 4: FIRST AID MEASURES

EYES: Flush immediately with clean water for at least 15 minutes holding eye lids open. Consult a physician.

SKIN: immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately if large area of skin is affected.

INGESTION: Do not induce Vomitting unless doctor or poison control center advise to induce vomiting. Have person rinse mouth our and then have them drink 8 oz of water. If person does vomite have them rinse mouth with water.

INHALATION: If not breathing fgive artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME) **UPPER:** N/A **LOWER:** N/A

FLASH POINT: F: N/A C: N/A **METHOD USED:**

AUTOIGNITION TEMPERATURE: F: N/A C: N/A

NFPA HAZARD CLASSIFICATION

HEALTH: 2 **FLAMMABILITY:** 0 **REACTIVITY:** 1 **OTHER:**

HMIS HAZARD CLASSIFICATION

HEALTH: 2 **FLAMMABILITY:** 0 **REACTIVITY:** 1 **PROTECTION:** C

EXTINGUISHING MEDIA: Water, water spray, or suitable to surrounding fire. Neutralize with soda ash or slaked lime.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire exposed containers as contents can rupture violently from heat developed pressures. It is always recommended to use SCBA when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents corrosive.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon and smoke.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: wear recommended protective equipment. Recover as much free liquid as possible and collect in acid-resistant container. Neutralize with alkaline material (soda ash, lime), then use absorbent inert material and place in chemical waste container. Prevent from entering sewers, water sources or low lying areas.

SECTION 6 NOTES: Review current local, state and federal laws, codes, statued , and regulations to determine appropriate agencies to be notified, and the conditions under which they are to be notified. Waste and its solutions are assigned EPA Hazardous Waste number D010 and can be disposed of through a licensed waste disposal company.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in cool, dry, ventilated area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat and incompatible materials. Do not wash out container and use for other purposes. When diluting, always add the acid to water; never water to acid. Protect from freezing.

OTHER PRECAUTIONS: Containers of this material may be hazardous whn empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product.

SECTION 7 NOTES: Keep out of the reach of children

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: General ventilation should be used.

VENTILATION : Local exhaust ventilation should be sufficient to keep exposure below TLV.

RESPIRATORY PROTECTION: Air supplied or self contained breathing apparatus if misting is likely.

EYE PROTECTION: Safety glasses, goggles, or face shield.

SKIN PROTECTION: Rubber or neoprene gloves

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Apron, may use impervious boots, or coveralls as needed in areas of unusual exposure to prevent skin contact.

WORK HYGIENIC PRACTICES: Avoid contact with skin or eyes and avoid breathing vapors. Wash hands after use.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear blue

ODOR: No odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 1.33

BOILING POINT: F: >212 C: >100

MELTING POINT: F: C:

FREEZING POINT: F: <32 C: <0

VAPOR PRESSURE (mmHg): Like water @ F: 75 C: 23

VAPOR DENSITY (AIR = 1): Like water @ F: 75 C: 23

SPECIFIC GRAVITY (H₂O = 1): 1.0185 @ F: 75 C: 23

EVAPORATION RATE: BASIS (=1);

SOLUBILITY IN WATER: 100%

PERCENT VOLATILE: BY WT/ BY VOL @ F: C:

VOLATILE ORGANIC COMPOUNDS (VOC): WITH WATER: 0 LBS/GAL
WITHOUT WATER: 0 LBS/GAL

VISCOSITY: @ F: C:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE: X UNSTABLE:

CONDITIONS TO AVOID (STABILITY): None known

INCOMPATIBILITY (MATERIAL TO AVOID): Amines, copper, alkalis, hydroxides, bases.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: hydrogen chloride, chlorine, hydrogen selenide, organoselenides

HAZARDOUS POLYMERIZATION: will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: This product is irritating to the skin and eyes.

Selenium Dioxide: LD50 - oral 68.1 mg/kg, rat

LD50 - dermal 4 mg/kg, rabbit.

Copper sulfate: LD50 - oral 300 mg/kg, rat

LD50 - 1000mg/kg, rabbit

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available for mixture

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, State and Federal regulations

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Consumer commodity

HAZARD CLASS: ORM-D

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME: Consumer commodity

HAZARD CLASS: 9

ID NUMBER: ID8000

PACKING GROUP: None

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Selenium Dioxide - CAS 7445-08-4; Copper sulfate - CAS 7758-98-7

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Selenium Dioxide - CAS 7445-08-4 - 10#

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302 HAZARD CATEGORIES:

311/312 HAZARD CATEGORIES: Selenium Dioxide - CAS 7445-08-4; Copper sulfate - CAS 7758-98-7

313 REPORTABLE INGREDIENTS: ; Copper sulfate - CAS 7758-98-7; Phosphoric Acid - CAS 7664-38-2

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STATE REGULATIONS: MA: Selenium Dioxide – CAS 7445-08-4; Copper sulfate – CAS 7758-98-7
DE: Selenium Dioxide – CAS 7445-08-4; Copper sulfate – CAS 7758-98-7
PA: Selenium Dioxide – CAS 7445-08-4; Copper sulfate – CAS 7758-98-7
NY: Selenium Dioxide – CAS 7445-08-4; Copper sulfate – CAS 7758-98-7
CA: Prop 65 cancer and birth defects or reproductive harm – Nickel chloride – CAS 7718-54-9

INTERNATIONAL REGULATIONS: Canada DSL: Selenium Dioxide – CAS 7445-08-4; Copper sulfate – CAS 7758-98-7

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

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