

**Safety Data Sheet**  
**Metal Blackening Solution**

**SECTION I - IDENTIFICATION**

**PRODUCT NAME:** EASTWOOD METAL BLACKENING SOLUTION  
**PRODUCT CODE:** 10113ZB  
**PRODUCT USE:** Metal Blackener  
**COMPANY NAME:** The Eastwood Company  
**COMPANY ADDRESS:** 263 Shoemaker Rd. Pottstown PA 19464 610-323-2200  
**COMPANY PHONE:** (U.S. & Canada) 1-800-345-1178  
**EMERGENCY PHONE:** 800-434-2200 (Chemtrec)

**SECTION II – HAZARDS IDENTIFICATION**

**CLASSIFICATION:** Skin Corrosive: Category 1C  
Eye Damage: Category 1  
Carcinogenicity: Category 1B  
Germ Cell Mutagenicity: Category 2  
Specific Target Organ Toxicity (Repeated Exposure): Category 2  
Skin Sensitization: Category 1  
Respiratory Sensitization: Category 1  
Reproductive Toxicity: 1B

**HAZARD STATEMENT(S): DANGER:** Causes Severe skin burns and eye damage. May cause cancer. Suspected of causing genetic defects. Suspected of causing damage to the Upper Respiratory Tract through prolonged or repeated exposure. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May damage fertility or the unborn child.

This product contains the following percentage of chemicals of unknown toxicity: 0.0%

**PRECAUTIONARY STATEMENTS:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fumes, mist, or vapors. Wash hands thoroughly after handling. Wear protective gloves, eye protection, and respiratory protection. Contaminated work clothing must not be allowed out of the workplace. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations. Keep only in original container. Absorb spillage to prevent material damage. Store in a corrosive resistant container with a resistant inner liner. Use only outdoors or in a well-ventilated area. Store in a well-ventilated place. Keep container tightly closed.



SYMBOL:

**HAZARDS NOT OTHERWISE CLASSIFIED:** N/A

**SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Phosphoric Acid	7664-38-2	1-5%
Nickel(II) chloride hexahydrate	7791-20-0	1-5%
Copper sulfate pentahydrate	7758-99-8	1-5%
Selenium Dioxide	7446-08-4	1-5%

**SECTION IV - FIRST AID MEASURES**

**EYES:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**INGESTION:** If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

**INHALATION:** If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor.

**SKIN:** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.

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**ACUTE HEALTH HAZARDS:** Causes severe burns.

**CHRONIC HEALTH HAZARDS:** Possible cancer/mutagen causing agent

**NOTE TO PHYSICIAN:** There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

### SECTION V – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Carbon dioxide, foam, and water fog or spray.

**UNSUITABLE EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Non-combustible

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon and metal oxides.

### SECTION VI – ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment.

**SPILL:** Clean up using rag or use some non-combustible material like vermiculite, sand or earth. Prevent spill from entering sewers, storm drains, and natural waterways. Pick up remaining residue

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations.

**RCRA STATUS:** Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

### SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Keep only in original container. Store in a corrosive resistant container with a resistant inner liner.

**OTHER PRECAUTIONS:** Keep out of the reach of children.

**INCOMPATIBILITY:** Alkaline Materials.

### SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Phosphoric Acid	1 mg/m3	1 mg/m3
Nickel(II) chloride hexahydrate	1 mg/m3	0.1 mg/m3
Copper sulfate pentahydrate	1 mg/m3	1 mg/m3
Selenium Dioxide	.2 mg/m3 as dust	.2 mg/m3 as dust

**ENGINEERING CONTROLS / VENTILATION:** Use only outdoors or in a well-ventilated area.

**RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits (section VIII) are exceeded.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses and chemical resistant gloves

**ADDITIONAL MEASURES:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Green liquid

**ODOR:** Bland odor

**ODOR THRESHOLD:** N/D

**BOILING POINT:** > 212°F (100°C)

**FREEZING POINT:** < 32°F (0°C)

**FLAMMABILITY:** Not considered a flammable liquid by OSHA (29CFR 1910.1200)

**FLASH POINT:** > 200°F (93°C)

**AUTOIGNITION TEMPERATURE:** N/D

**LOWER FLAMMABILITY LIMIT:** N/D

**UPPER FLAMMABILITY LIMIT:** N/D

**VAPOR PRESSURE (mm Hg):** N/D

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**VAPOR DENSITY (AIR=1):** 1  
**EVAPORATION RATE:** < 0.8 (Slow)  
**SPECIFIC GRAVITY (H2O=1):** 1.02  
**pH:** <1  
**SOLIDS (%):** N/D  
**SOLUBILITY IN WATER:** 100%  
**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D  
**VOLATILITY INCLUDING WATER (%):** > 80%  
**VOLATILE ORGANIC COMPOUNDS (VOC):** 0.0%  
**DIELECTRIC STRENGTH (Volts):** N/A  
**DECOMPOSITION TEMPERATURE:** N/D  
**VISCOSITY:** N/D

**SECTION X – STABILITY AND REACTIVITY DATA**

**REACTIVITY:** Chemically active metals and bases.  
**CHEMICAL STABILITY:** Stable  
**CONDITIONS TO AVOID:** Elevated temperatures and excessive heat.

**INCOMPATIBILITY:** Alkaline Materials.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of Carbon and Sulfur.  
**POSSIBLE HAZARDOUS REACTIONS:** None Known

**SECTION XI – TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION: Phosphoric Acid** (7664-38-4) LD<sub>50</sub> (Oral, Rat) 4,400 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) > 3,160 mg/kg  
**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin  
**EYES:** Causes severe burns, stinging, redness, tearing, swelling, and may cause corneal damage, blindness.  
**INGESTION:** Causes burns.  
**INHALATION:** Causes dizziness, headaches, nausea, and may cause asthma-like symptoms.  
**SKIN:** Causes severe irritation, burns, redness, discolor skin and may cause a rash.  
**MEDICAL CONDITION AGGRAVATED:** Pre-existing disorders of skin and lungs.  
**ACUTE HEALTH HAZARDS:** Causes severe burns.  
**CHRONIC HEALTH HAZARDS:** Possible cancer/mutagen causing agent  
**CARCINOGENICITY:** OSHA: Not Classified ACGIH: No NTP: 1 - Known Carcinogen IARC: 1 - Human OTHER: CA Prop 65

**SECTION XII – ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION: Phosphoric Acid** (7664-38-2) LC<sub>50</sub> (Mosquito Fish, 24hr)  
**BIODEGRADABILITY:** Component or components of this product are not biodegradable.  
**BIOACCUMULATION:** Components in this mixture can bioaccumulate in aquatic organisms.  
**SOIL MOBILITY:** This product is mobile in soil.  
**OTHER ECOLOGICAL HAZARDS:** This material is toxic to aquatic life.

**SECTION XIII – DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations.  
**RCRA STATUS:** Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

**SECTION XIV - TRANSPORTATION INFORMATION**

**PROPER SHIPPING NAME:** Corrosive, liquids, toxic, n.o.s., Ltd. Qty.  
**HAZARD CLASS/DIVISION:** 8 (6.1)  
**UN/NA NUMBER:** UN2922  
**PACKAGING GROUP:** III

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**AIR SHIPMENT**

**PROPER SHIPPING NAME:** Corrosive, liquids, toxic, n.o.s., Ltd. Qty.

**HAZARD CLASS/DIVISION:** 8 (6.1)

**UN/NA NUMBER:** UN2922

**SHIPPING BY WATER:**

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Corrosive, liquids, toxic, n.o.s., Ltd. Qty.

**HAZARD CLASS/DIVISION:** 8 (6.1)

**UN/NA NUMBER:** UN2922

**ENVIRONMENTAL HAZARDS WATER:** Marine Pollutant

**SECTION XV - REGULATORY INFORMATION**

**TSCA STATUS:** All Chemicals are listed or exempt.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA 311/312 HAZARD CATEGORIES:** None

**SARA 313 REPORTABLE INGREDIENTS:** Selenium dioxide 7446-08-4; Nickel (II) chloride hexahydrate 7791-20-0; Copper sulphate pentahydrate 7758-99-8

**STATE REGULATIONS:** Warning: This product contains a chemical known to the State of California to cause cancer. Nickel(II) chloride hexahydrate

**INTERNATIONAL REGULATIONS:** All components are listed or exempted.

**NFPA HEALTH:** 2

**HMIS HEALTH:** 2

**NFPA FLAMMABILITY:** 0

**HMIS FLAMMABILITY:** 0

**NFPA REACTIVITY:** 0

**HMIS REACTIVITY:** 0

**NFPA OTHER:** None

**HMIS PROTECTION:** X, See your supervisor

**SECTION XVI - ADDITIONAL INFORMATION**

**PREPARATION BY:** EHS Admin.

**DATE PREPARED:** 10/07/2015

**REVISION DATE:** 10/09/2015

N/A = Not Applicable; N/D = Not Determined

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