

MATERIAL SAFETY DATA SHEET

RESTORE-A-DECK WOOD DECK BRIGHTENER

MSDS DATE: 2/23/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RESTORE-A-DECK WOOD DECK BRIGHTENER

MANUFACTURER: OPW L.L.C.
ADDRESS: 1992 Star Batt
Rochester Hills, MI 48309

EMERGENCY PHONE: 1-866-856-3325
FAX: 248-299-9867

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

Citric acid

<u>CAS NO.</u>	<u>% WT</u>	<u>OSHA PELTWA</u>	<u>OSHA PEL CEILING</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH TLV STEL</u>
77-92-9	> 50	N/E	N/E	N/E	N/E

Oxalic acid

<u>CAS NO.</u>	<u>% WT</u>	<u>OSHA PELTWA</u>	<u>OSHA PEL CEILING</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH TLV STEL</u>
114-62-7	< 50	1 mg/m ³	N/E	1 mg/m ³	2 mg/m ³

SECTION 4 NOTES:
N/A = Not Applicable
N/E = Not Established

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Eyes, skin, inhalation, ingestion

POTENTIAL HEALTH EFFECTS

EYES: Can be severely irritating to the eyes.

SKIN: Can be a severe skin irritant. May be corrosive and cause severe burns if not washed immediately.

INGESTION: Poisonous if swallowed. May cause renal failure if ingested.

INHALATION: Can cause severe irritation of the nose, throat and respiratory tract and may produce headache and nausea in areas of poor ventilation.

CARCINOGENICITY

OSHA: NO

NTP: NO

IARC: NO

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within several seconds is essential to achieve maximum effectiveness. If irritation persists, seek medical attention.

SKIN: Immediately wash skin with large amounts of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

INGESTION: Drink plenty of milk of magnesia with water or milk. DO NOT INDUCE VOMITING! Contact a physician immediately!

INHALATION: If adverse effects such as dizziness, nausea, or irritation are noted, move person to fresh air. If not breathing, give artificial respiration. Get medical attention!

SECTION 5: FIRE-FIGHTING MEASURES

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

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FLASH POINT: None.

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METHOD USED: Not applicable.

EXTINGUISHING MEDIA: Use media most appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear a self-contained breathing apparatus when fighting fire in an enclosed area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Low fire hazard when exposed to heat or flame. Product is not flammable or combustible.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: If material is spilled, dike area to contain spill. Absorb with sand, earth or similar inert material. Place in closed, labeled containers for disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation. Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels.

OTHER PRECAUTIONS: None known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION: None normally required. Local exhaust may be required under special circumstances such as poorly ventilated areas, evaporation from large surfaces, spraying, heating, etc.

RESPIRATORY PROTECTION: Use NIOSH / MSHA approved respiratory where high vapor or mist concentrations are present.

EYE PROTECTION: Safety glasses with side shields. DO NOT wear contact lenses. Chemical goggles and/or face shield should be worn where splashing is possible.

SKIN PROTECTION: Wear chemical resistant gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash and safety shower should be readily available. Wear a chemical resistant apron and boots where splashing is possible.

WORK HYGIENIC PRACTICES: Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer. Avoid contact with skin and avoid breathing vapors or mist. Do not eat, drink or smoke while using this product. Wash hands prior to eating, drinking, smoking or using rest rooms. Cleanse skin thoroughly after contact, before breaks and meals and at the end of the work shift.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White crystals and powder

ODOR: Mild.

pH AS SUPPLIED: < 2 (1% aqueous)

BOILING POINT: N/A

FREEZING POINT: N/A

VAPOR PRESSURE (mmHg): N/A

VAPOR DENSITY (AIR = 1): N/A

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EVAPORATION RATE: N/A

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SOLUBILITY IN WATER: Complete.

PERCENT NONVOLATILE: 100%

PERCENT VOLATILE: 0%

VOLATILE ORGANIC COMPOUNDS (VOC): 0%

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Do not mix with strong bases!

INCOMPATIBILITY (MATERIAL TO AVOID): Furfuryl alcohol, silver, chlorates, hypochlorites, bases and strong oxidizing agents. Can be explosive with metal nitrates.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Citric acid [CAS No. 000077-92-9]

Acute Toxicity: Eye irritation: Sever irritant, causes pain and redness. Prolonged or repeated contact may cause mild burn.
Skin irritation: Irritant may cause pain, redness or dermatitis. Not likely to be absorbed in toxic amounts.

Oral LD50: rat, 11700 mg/kg

Respiratory irritation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Mist is Irritating.

Citric acid [CAS No. 000114-62-7]

Acute Toxicity: Oral LD50: rat, 375 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Citric acid [CAS No. 000077-92-9]

96 hr LC50 (goldfish) = 440 - 706 mg/l

EC0 (bacteria) = > 10,000 mg/l

CHEMICAL OXYGEN DEMAND (COD) = 750 (50 mg O₂/g)

BIOLOGICAL OXYGEN DEMAND within 5 days (BOD₅) = 625 (50 mg O₂/g)

Readily biodegradable = 98% after 2 days

Bioaccumulation = None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: In accordance with all federal, state and local requirements.

RCRA HAZARD CLASS: Not applicable.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (Domestic ground, non-bulk, <= 1 gallon)

PROPER SHIPPING NAME: CONSUMER COMMODITY, ORM-D

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: UN3261, CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID AND OXALIC ACID), 8, PG III

INTERNATIONAL TRANSPORTATION (including WATER and AIR TRANSPORTATION)

PROPER SHIPPING NAME: UN3261, CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID AND OXALIC ACID), 8, PG III

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not applicable.

313 REPORTABLE INGREDIENTS: None.

SECTION 16: OTHER INFORMATION

Date prepared: February 23, 2012