

SAFETY DATA SHEET

1. Identification

Name of the product: RESTORE-A-DECK WOOD BRIGHTENER

Recommended use: Concentrated wood brightener

Supplier:

RAD OPW LLC
2388 Franklin Rd
Bloomfield Hills, MI

EMERGENCY PHONE: 1-800-535-5053 (INFOTRAC)

2. Hazard(s) identification

GHS Classification: Classification of this mixture in accordance with paragraph (d) of §1910.1200.
Acute Toxicity Oral – Category 4
Skin Corrosion/Irritation – Category 1
Eye Damage/Irritation - Category 1

Label elements:

Symbol:



Signal word: **DANGER**

Hazard statements: Causes severe skin burns and eye damage. Harmful if swallowed.

Precautionary statements:

Do not breath dust/fume/gas/mist/vapors/spray.

Keep only in original container. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.

SAFETY DATA SHEET

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Storage: Store locked up
Disposal: Dispose of contents/container to an approved disposal facility.
Other Hazards: None known
Other Information: Harmful to the aquatic life.
Keep out of reach of children

3. Composition / Information on ingredients

CHEMICAL NAME	CAS NUMBER	WEIGHT %
Citric acid	77-92-9	> 50%
Oxalic acid	144-62-7	< 50%

4. First aid measures

Inhalation:

If adverse effects such as dizziness, nausea or irritation are noted, move person to fresh air. Contact a physician if you feel unwell.

Skin contact:

Wash with soap and water. Get medical attention if irritation persists after washing.

Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation persists.

Ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. Firefighting measures

Suitable extinguishing media: Product does not support combustion. Use media most appropriate for surrounding fire.

Specific hazards in case of fire: May decompose upon heating to produce oxides of carbon.

SAFETY DATA SHEET

Special protective equipment and precaution for fire fighters: For fires in enclosed areas, wear self-contained breathing apparatus. Do not inhale combustion gases.

6. Accidental release measures

Personal precautions:

Prevent contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental precautions:

Do not release to the environment or water source.

Methods and materials for containment and cleaning up:

Halt spill at source and contain or dike spill with sand or inert absorbent material. Transfer any liquid to containers for recovery or disposal. Collect used absorbent into drums for disposal in accordance with all applicable local and national regulations.

7. Handling and storage

Precautions for safe handling:

Avoid contact with skin and eyes; wash thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including incompatibilities:

Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels. Keep out of reach of children. Incompatible with chlorine bleach.

8. Exposure controls / personal protection

Occupational exposure limits:

Ingredient(s)	CAS#	ACGIH	OSHA
Oxalic acid	144-62-7	1 mg/m ³	2 mg/m ³

Engineering measures to reduce exposure:

Good general ventilation should be sufficient to control airborne levels.

SAFETY DATA SHEET

Respiratory protection:

None required in well-ventilated areas. Any approved organic vapor full face respirator is advised for poorly ventilated areas.

Eye protection:

Chemical splash goggles.

Skin protection:

Chemical resistant gloves and chemical resistant clothing.

Work hygienic practices: Cleanse skin thoroughly after contact, before breaks and meals and at the end of the work shift.

9. Physical and chemical properties

Physical state: Solid

Color: White

Odor: Odorless

pH-value: < 2

Freezing Point: Not applicable

Initial boiling point: Not applicable

Flash point: None

Evaporation rate (Water=1): Not applicable

Upper flammability limit: No data available

Lower flammability limit: No data available

Vapor pressure: No data available

Vapor density (Water Vapor=1): No data available

Specific gravity: No data available

Solubility: Complete in water.

Partition coefficient: No data available

Autoignition temperature: No data available

Decomposition temperature: No data available

Volatile Organic Compounds (VOC): 0 lbs/gal (EPA method 24)

Viscosity: Not applicable

10. Stability and reactivity

Chemical stability: Stable.

SAFETY DATA SHEET

Hazardous polymerization: Will not occur.

Conditions to avoid: None known.

Materials to avoid: Chlorine bleach.

Hazardous decomposition products: Oxides of carbon.

11. Toxicological information

Likely routes of exposure: Eyes, skin, ingestion, inhalation

Symptoms of exposure:

Eye contact: Causes serious eye damage

Skin contact: Contact causes severe skin irritation and possible burns.

Inhalation: May cause irritation of respiratory tract

Ingestion: Ingestion may cause stomach discomfort at low quantities, but can be fatal in quantities above 5 grams.

Immediate, delayed, chronic effects:

Product information: No data available

Target organ effects: Eyes, skin, kidneys

Component acute toxicity information:

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Citric acid 77-92-9	11,700 mg/kg (rat)	>2,000 mg/kg (rat)	No data available
Oxalic acid 144-62-7	375 mg/kg (rat)	No data available	No data available

12. Ecological information

Ecotoxicity:

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH	MICRO-ORGANISMS	INVERTEBRATES
Citric acid 77-92-9	425 mg/l Exposure time: 168 h Species: Scenedesmus quadricauda (Green algae) static test	LC50: 440 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden orfe) static test	> 10.000 mg/l Exposure time: 16 h Species: Pseudomonas putida	LC50: 1.535 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea) static test
Oxalic acid 144-62-7	No data available	LC50: 14.2 mg/l Exposure time: 96h Species:	No data available	No data available

SAFETY DATA SHEET

		Pimephales promelas		
--	--	------------------------	--	--

Persistence and degradability: Harmful to aquatic life.

Bioaccumulation: No data available but expected not to bioaccumulate based on ingredients.

13. Disposal considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code: D002

Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

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

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories**

SAFETY DATA SHEET

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 313 (TRI reporting)

Not regulated.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. Other information

HMIS HAZARD RATING INFORMATION:

HEALTH: 3 FIRE: 0 REACTIVITY: 0 SPECIAL: 0

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

HMIS PROTECTION:

None required under normal conditions of use. If there is an opportunity for splashing:



Face
Shield



Gloves



Protective
Apron

SDS preparation date: March 26, 2015

SDS revision date: April 25, 2018 Section 1

The information contained herein is accurate to the best of our knowledge. RAD OPW LLC makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.