

# SAFETY DATA SHEET

## ***1. Identification***

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

**Recommended use:** Concentrated wood brightener

**Manufacturer:**

Stone Soap, Inc.

2000 Pontiac Drive

Sylvan Lake, MI 48320

**Owner:**

RAD OPW LLC

2388 Franklin Rd

Bloomfield Hills, MI

EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

## ***2. Hazard(s) identification***

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**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 breathe 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.

# SAFETY DATA SHEET

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

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***

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

### ***4. First aid measures***

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**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***

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

# SAFETY DATA SHEET

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

**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***

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**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***

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**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***

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**Occupational exposure limits:**

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

## SAFETY DATA SHEET

### **Engineering measures to reduce exposure:**

Good general ventilation should be sufficient to control airborne levels.

### **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***

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**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***

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# SAFETY DATA SHEET

**Chemical stability:** Stable.

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** None known.

**Materials to avoid:** Chlorine bleach.

**Hazardous decomposition products:** Oxides of carbon.

## ***11. Toxicological information***

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**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:**

<b>CHEMICAL NAME</b>	<b>ORAL LD50</b>	<b>DERMAL LD50</b>	<b>INHALATION LC50</b>
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***

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**Ecotoxicity:**

<b>CHEMICAL NAME</b>	<b>ALGAE/AQUATIC PLANTS</b>	<b>FISH</b>	<b>MICRO-ORGANISMS</b>	<b>INVERTEBRATES</b>
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:	No data available	No data available

# SAFETY DATA SHEET

		96h Species: Pimephales promelas		
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**Persistence and degradability:** Harmful to aquatic life.

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

## ***13. Disposal considerations***

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**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***

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

## ***15. Regulatory information***

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### **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.

# SAFETY DATA SHEET

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

### Hazard categories

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

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### 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:



**MSDS preparation date:** March 26, 2015

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.

## 1. Identification

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# SAFETY DATA SHEET

**Name of the product:** RESTORE-A-DECK WOOD DECK CLEANER

**Recommended use:** Concentrated wood deck cleaner

**Manufacturer:**

Stone Soap, Inc.

2000 Pontiac Drive

Sylvan Lake, MI 48320

**Owner:**

RAD OPW LLC

2388 Franklin Rd

Bloomfield Hills, MI

EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

## ***2. Hazard(s) identification***

---

**GHS Classification:** Classification of this mixture in accordance with paragraph (d) of §1910.1200.  
Oxidizing Solid – Category 2  
Acute Toxicity – Category 4  
Eye Damage/Irritation - Category 1

**Label elements:**

Symbol:



Signal word: **DANGER**

Hazard statements: May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage. May cause respiratory irritation.

Precautionary statements:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep away from combustible materials. Take any precaution to avoid mixing with combustibles. In case of fire, use water or water spray to extinguish. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapor/spray. Wash thoroughly after handling.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.



## SAFETY DATA SHEET

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.  
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***

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<b>CHEMICAL NAME</b>	<b>CAS NUMBER</b>	<b>WEIGHT %</b>
Sodium carbonate peroxyhydrate	15630-89-4	70 - 80%
Disodium trioxosilicate	6834-92-0	< 20%
Sodium tripolyphosphate	7758-29-4	< 20%
Tetraacetylenediamine	10543-57-4	10 – 15%

### ***4. First aid measures***

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**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.

# SAFETY DATA SHEET

**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***

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**Suitable extinguishing media:** Water or water spray.

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

**Special protective equipment and precaution for fire fighters:** For fires in enclosed areas, wear self-contained breathing apparatus. Do not inhale combustion gases. Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

## ***6. Accidental release measures***

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**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:**

## SAFETY DATA SHEET

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***

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#### **Occupational exposure limits:**

<b>Ingredient(s)</b>	<b>CAS#</b>	<b>ACGIH</b>	<b>OSHA</b>
Sodium carbonate peroxyhydrate	15630-89-4	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Disodium trioxosilicate	6834-92-0	No data available	2 mg/m <sup>3</sup>
Sodium tripolyphosphate	7758-29-4	No data available	2 mg/m <sup>3</sup>
Tetraacetythylenediamine	10543-57-4	3 mg/m <sup>3</sup>	No data available

#### **Engineering measures to reduce exposure:**

Good general ventilation should be sufficient to control airborne levels.

#### **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***

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**Physical state:** Solid

## SAFETY DATA SHEET

**Color:** White

**Odor:** Odorless

**pH-value:** > 10

**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***

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**Chemical stability:** Unstable on exposure to heat or moisture. Promotes combustion.

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Avoid raising dust. Keep away from naked flames/heat

**Materials to avoid:** Combustible materials, oxidizing agents, (strong) acids, (strong) bases, metals, organic materials, water/moisture, steel

**Hazardous decomposition products:** Oxides of carbon.

### ***11. Toxicological information***

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

**Symptoms of exposure:**

**Eye contact:** Causes serious eye damage

**Skin contact:** Contact causes skin irritation

**Inhalation:** May cause irritation of respiratory tract

**Ingestion:** Harmful if swallowed

**Immediate, delayed, chronic effects:**

**Product information:** No data available

# SAFETY DATA SHEET

**Target organ effects:** Eyes, skin, kidneys

## Component acute toxicity information:

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Sodium carbonate peroxyhydrate 15630-89-4	1,034 mg/kg (rat)	>2,000 mg/kg (rabbit)	No data available
Disodium trioxosilicate 6834-92-0	600 – 1,350 mg/kg (rat)	No data available	No data available
Sodium tripolyphosphate 7758-29-4	3,120 mg/kg (rat)	>4,640 mg/kg (rabbit)	No data available
Tetraacetylenediamine 10543-57-4	> 2,000 mg/kg (rat)	> 2,000 mg/kg (rat)	> 2.08 mg/l, 4h (rat)

## 12. Ecological information

### Ecotoxicity:

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH	MICRO-ORGANISMS	INVERTEBRATES
Sodium carbonate peroxyhydrate 15630-89-4	No data available	LC50: 70.7 mg/l Exposure time: 48 h Species: Pimephales promelas	No data available	LC50: 4.9mg/l Exposure time: 48 h Species: Daphnia pulex
Disodium trioxosilicate 6834-92-0	No data available	No data available	No data available	No data available
Tetraacetyleny	EC50: > 1,000 mg/l Exposure time: 72 h	LC50: > 500 mg/l Exposure time:	EC50: > 1,000 mg/l Exposure time: 3 h	EC50: > 1,000 mg/l Exposure time: 48 h

# SAFETY DATA SHEET

lenediamine 10543-57-4	Species: Desmodesmus subspicatus	96 h Species: Danio rerio		Species: Daphnia magna
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**Persistence and degradability:** Harmful to aquatic life.

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

## ***13. Disposal considerations***

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**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***

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**US DOT PROPER SHIPPING NAME: UN3085, OXIDIZING SOLID, CORROSIVE, N.O.S. (SODIUM CARBONATE PEROXYHYDRATE, DISODIUM TRIOXOSILICATE), 5.1 (8), PG III**

## ***15. Regulatory information***

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### **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.

# SAFETY DATA SHEET

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not regulated.

## **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

### **Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

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***

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### **HMIS HAZARD RATING INFORMATION:**

**HEALTH: 2    FIRE: 0    REACTIVITY: 1    SPECIAL: OX**

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

**MSDS preparation date:** March 26, 2015

The information contained herein is accurate to the best of our knowledge. RAD OPW

## SAFETY DATA SHEET

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.