



**Product Name:** Stain Out  
**Date:** 2/15/2021

**SECTION 1 IDENTIFICATION**

**Supplier:** Phoenix Products Company  
55 Container Drive  
Terryville, CT 06786  
(860) 589-7502

**Distributor:**

**U.S. PERS Emergency Telephone:** 1-800-633-8253

**Product Name:** **Stain Out**

**Synonyms:** Ethanedioic acid; Aktisal; Aquisal; Oxalic acid anhydrous

**Chemical Name:** Oxalic Acid

**Chemical Formula:** C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>

**CAS Number:** 144-62-7

**Product Use:** Removes stain causing minerals in pools.

**SECTION 2 HAZARDOUS COMPONENTS**

**EMERGENCY OVERVIEW**

**DANGER**



**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Dermal (Category 4), H312  
Serious eye damage (Category 1), H318

**Hazard Statement(s)**

**H302: Harmful if swallowed**

H312: Harmful in contact with skin

H318 Causes serious eye damage.

**Precautionary statement(s)**

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P310 Immediately call a POISON CENTER or doctor/ physician.

P322 Specific measures (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/ container to an approved waste disposal plant.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS Number</u>	<u>Percent</u>
Oxalic acid	144-62-7	50%-75%
Sodium Chloride	7647-14-5	25%-50%



SECTION 4 **FIRST-AID MEASURES**

**General Advice:** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 **FIRE FIGHTING MEASURES**

**Fire:** Oxalic acid is a combustible solid below 101°C (215°F).

**Explosion:** Reacts explosively with strong oxidizing materials and some silver compounds.

**Extinguishing Media:**

. **Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

. **Special Hazards Arising from the Substance or Mixture:** Carbon oxides

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate personal protective equipment as specified in Section 8. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental Precautions:** Do not let product enter drains. If material comes in contact with water, neutralize liquid with alkaline material (soda ash, lime), then absorb with an inert material (e.g. vermiculite, dry sand) and place in a chemical waste container. Do not use combustible materials, such as saw dust.

**Methods and Materials for Containment and Cleaning Up:** Remove all sources of ignition. Ventilate area of leak or spill. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 **HANDLING AND STORAGE**

**Precautions For Safe Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

**Conditions For Safe Storage, Including Any Incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Protect from physical damage.

**Specific End Use(s):** Apart from the uses mentioned in Section 1, no other specific uses are stipulated.



SECTION 8 <b>EXPOSURE CONTROL/PERSONAL PROTECTION</b>
---

**Components With Workplace Control Parameters**

Component	CAS Number	Value	Control Parameters	Basis
Oxalic Acid	144-62-7	TWA	1 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye, skin, & Upper Respiratory Tract irritation.		
		STEL	2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		Eye, skin, & Upper Respiratory Tract irritation.		
		TWA	1 mg/m <sup>3</sup>	USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000
		STEL	2 mg/m <sup>3</sup>	USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000
		TWA	1 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	1 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		STEL	2 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits

**Exposure Controls**

**Appropriate Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employees exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the containment at its source, preventing dispersion of it into the general work area.

**Personal Protective Equipment:**

**Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and dust/mist filter may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and dust/mist filter may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Eye/Face Protection:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



SECTION 8 **EXPOSURE CONTROL/PERSONAL PROTECTION - Continued**

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirator and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of Environmental Exposure:** Do not let product enter drains.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Form: Crystalline Color: White
<b>Odor:</b>	Odorless.
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	1.3 at 9 g/l
<b>Melting Point:</b>	Melting point/range: 189.5°C (373.1°F) – dec.
<b>Initial Boiling Point and Boiling Range:</b>	157°C (315°F) at 1,013 hPa (760 mmHg)
<b>Flash Point:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Flammability (solid, gas):</b>	Not Available
<b>Upper/Lower Flammability or Explosive Limits:</b>	Not Available
<b>Vapor Pressure:</b>	<0.01 hPa (<0.01 mmHg) and 20°C (68°F)
<b>Vapor Density:</b>	4.62 (Air = 1)
<b>Relative Density:</b>	1.9 g/cm <sup>3</sup> at 25°C (77°F)
<b>Water Solubility:</b>	108 g/l at 25°C (77°F) – soluble
<b>Partition Coefficient (n-octanol/water):</b>	Not Available
<b>Auto-Ignition Temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	Not Available
<b>Viscosity:</b>	Not Available
<b>Explosive Properties:</b>	Not Available
<b>Oxidizing Properties:</b>	Not Available
<b>Surface Tension:</b>	70.1 mN/m at 25°C (77°F)

SECTION 10 **STABILITY AND REACTIVITY**

**Reactivity:** Not Available

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Not Available

**Conditions to Avoid:** Avoid moisture, heat, ignition sources and incompatibilities.

**Incompatible Materials:** Alkalis, chlorites, hypochlorites, oxidizing agents, furfuryl alcohol and silver compounds.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition. May also form formic acid.

**Hazardous Polymerization:** Will not occur.



SECTION 11 **TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** LD50 Oral – rat – female – 1,080 mg/kg  
Inhalation: no data available  
LD50 Dermal – rabbit – 20,000 mg/kg

**Skin Corrosion/Irritation:** Skin – rabbit  
Result: No skin irritation  
(OECD Test Guideline 404)

**Serious Eye Damage/Eye Irritation:** Eyes – rabbit  
Result: Risk of serious damage to eyes. – 24h  
(OECD Test Guideline 405)

**Respiratory or Skin Sensitization:** mouse  
Result: Does not cause skin sensitization.

**Germ Cell Mutagenicity:** S. typhimurium  
Result: negative

**Carcinogenicity:**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** Possible risk of congenital malformation in the fetus.

Reproductive toxicity – mouse – Oral  
Effects on Fertility: Other measures of fertility Effects on Embryo or Fetus:  
Fetotoxicity (except death, e.g., stunted fetus).

**Specific Target Organ Toxicity – single exposure:** No data available

**Specific Target Organ Toxicity – repeated exposure:** No data available

**Aspiration Hazard:** No data available

**Additional Information:** Repeated dose toxicity – Lowest observed adverse effect level – 150 mg/kg  
RTECS: RO2450000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach – Irregularities – Based on Human Evidence



SECTION 12 **ECOLOGICAL INFORMATION**

**Toxicity:** Toxicity to fish: static test LC50 – *Leuciscus idus melanotus* – 160 mg/l – 48 h

Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 – *Daphnia magna* (Water flea) – 162.2 mg/l – 48 h (OECD Test Guideline 202)

**Persistence and Degradability:** Biodegradability: aerobic – Exposure time 20 d  
Result: 89% - Readily biodegradable.

**Bioaccumulative Potential:** No data available.

**Mobility In Soil:** No data available.

**Results of PBT and vPvB Assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

SECTION 13 **DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods:**

**Product:** Other surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated Packaging:** Dispose of as unused product.

SECTION 14 **TRANSPORT INFORMATION**

**DOT:** **UN Number:** ORM-D  
**UN Proper Shipping Name:** ORM-D  
**Transport Hazard Class:** ORM-D  
**Packing Group:** ORM-D

*Consumer commodity* (ORM-D) means a material that is packaged and distributed in a form intended or suitable for sale through retail sales agencies or instrumentalities for consumption by individuals for purposes of personal care or household use. Valid until December 31, 2020.



**TDG:** **UN Number:** 3261  
**UN Proper Shipping Name:** Corrosive Solid, Acidic, Organic N.O.S. (Oxalic Acid)  
**Transport Hazard Class:** 8  
**Packing Group:** III  
**Marine Pollutant:** No

**MEX:** **UN Number:** 3261  
**UN Proper Shipping Name:** Corrosive Solid, Acidic, Organic N.O.S. (Oxalic Acid)  
**Transport Hazard Class:** 8  
**Packing Group:** III  
**Marine Pollutant:** No

**IATA:** **UN Number:** 3261  
**Proper Shipping Name:** Corrosive Solid, Acidic, Organic N.O.S. (Oxalic Acid)  
**Class:** 8  
**Packing Group:** III



**SAFETY DATA SHEET**  
Stain Out - 0310

**SECTION 15 REGULATORY INFORMATION**

**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard, Chronic Health Hazard

<b>Massachusetts Right To Know Components:</b>	CAS-No.	Revision Date
Oxalic Acid	144-62-7	1993-04-24

<b>Pennsylvania Right To Know Components:</b>	CAS-No.	Revision Date
Oxalic Acid	144-62-7	1993-04-24

<b>New Jersey Right To Know Components:</b>	CAS-No.	Revision Date
Oxalic Acid	144-62-7	1993-04-24

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

<b>Chemical Inventory Status – Part 1</b>				
<b>Ingredient</b>	<b>TSCA</b>	<b>EC</b>	<b>Japan</b>	<b>Australia</b>
Oxalic Acid (144-62-7)	Yes	Yes	Yes	Yes

<b>Chemical Inventory Status – Part 2</b>				
<b>Ingredient</b>	<b>Korea</b>	<b>DSL</b>	<b>NDSL</b>	<b>Phil.</b>
Oxalic Acid (144-62-7)	Yes	Yes	No	Yes

<b>Federal, State &amp; International Regulations – Part 1</b>				
<b>Ingredient</b>	<b>SARA 302</b>		<b>SARA 313</b>	
	<b>RQ</b>	<b>TPQ</b>	<b>List</b>	<b>Chemical Catg.</b>
Oxalic Acid (144-62-7)	No	No	No	No

<b>Federal, State &amp; International Regulations – Part 2</b>			
<b>Ingredient</b>	<b>CERCLA</b>	<b>RCRA</b>	<b>TSCA</b>
		<b>261.33</b>	<b>8 (d)</b>
Oxalic Acid (144-62-7)	No	No	No

**SECTION 16 OTHER INFORMATION**

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which the information refers.

Date: 2/15/2021  
Phoenix Products Company