# SAFETY DATA SHEET

## 1. Identification

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| **Product Identifier** | **Outdoor Stone Cleaner** |
| **Other means of identification** | |
| **Product code** | APX-RDOSC-2 |
| **Recommended use** | Stone and hard surface cleaner |
| **Recommended restrictions** | None known. |
| **Manufacturer information** | |
| **Company name** | **Rock Doctor** |
| **Address** | 8333 Melrose Drive<br>Lenexa, KS 66241 |
| **Telephone** | (913) 894-0288 |
| **Emergency phone number** | PERS 24-hour Emergency (800) 633-8253 |

## 2. Hazard(s) Identification

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| **Physical hazards** | Not classified. | |
| **Health hazards** | Skin irritation | Category 2 |
| | Eye irritation | Category 2A |
| **Environmental hazards** | Not classified. | |
| **OSHA defined hazards** | None. | |
| **Label elements** | | |

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| **Signal word** | **WARNING** |
| **Hazard statement** | Causes skin irritation.<br>Causes serious eye irritation. |
| **Precautionary statement** | |
| **Prevention** | Wash hands and exposed skin thoroughly after handling. Wear protective gloves. Wear eye protection/face protection. |
| **Response** | **IF ON SKIN:** Wash with plenty of water. Specific treatment (see section 4 on this SDS). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.<br>**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists: Get medical advice/attention. |
| **Storage** | No prescriptive instruction. |
| **Disposal** | Dispose in accordance with all applicable federal, state and local rules and regulations |
| **Hazard(s) not otherwise classified (HNOC)** | None. |
| **Supplemental information** | None. |

## 3. Composition/information on ingredients

| Mixture Component(s) | | | |
|---|---|---|---|
| **Chemical name** | **CAS number** | **Purpose** | **%** |
| Water | 7732-18-5 | Solvent | 90-100% |
| Proprietary Surfactant | PROPRIETARY | Surfactant | 0-5% |
| Cocamidopropyl Betaine | 61789-40-0 | Surfactant | 0-5% |
| Sodium Citrate | 6132-04-3 | Emulsion Stabilizer | 0-1% |
| Sodium Chloride | 7647-14-5 | Builder | 0-1% |

## 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and warm water for at least 15 minutes. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

**Eye contact** Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Immediately call a physician or transport to hospital.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person

**Most important symptoms/effects, acute and delayed** Can cause eye irritation. Can cause burning sensation in affected areas. Can cause dermatitis, rash. Hydrogen peroxide can temporarily turn the skin white with persistent contact. Symptoms may include tearing, redness and discomfort of the eyes.
May cause mild skin irritation. Symptoms may include redness, itching and swelling.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Indication of immediate medical attention and special treatment needed** Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Use with caution.

## 5. Fire-fighting measures

**Suitable extinguishing media** Water fog or water deluge.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire. Where possible avoid using foam, dry chemical powder or carbon dioxide ($CO_2$) to extinguish fires.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.

**Fire-fighting equipment/instructions** Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** May intensify fire; oxidizer. Substance releases oxygen when heated, which may increase the severity of an existing fire.

## 6. Accidental release measures

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| **Personal precautions, protective equipment and emergency procedures** | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| **Methods and materials for containment and cleaning up** | This product is miscible in water.<br><br>Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Ventilate area of release. Remove all sources of ignition. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert, absorbent material (e.g. sand or clay), then place absorbent material into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.<br><br>Small spills: Wipe up with absorbent material (e.g. cloth, or synthetic textile wipes). Clean surface thoroughly with water to remove residual contamination.<br><br>Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS. |
| **Environmental precautions** | Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. Avoid release to the open environment. Avoid discharge into surface waterways and areas not consistent with package labeling. |

## 7. Handling and storage

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| **Precautions for safe handling** | Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Keep away from combustible material. Label containers appropriately to identify potential hazards |
| **Conditions for safe storage, including any incompatibilities** | Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS). Store in a cool, dry, well-ventilated area. Store out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking in the area. Store higher volumes of product in vented containers. |

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| Hydrogen Peroxide | PEL | 1 ppm (1.4 mg/l) |

**US ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| Hydrogen Peroxide | TWA | 1 ppm (1.4 mg/l) |

**Biological limit values**

No data available.

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| **Appropriate engineering controls** | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. It is recommended that users of this product perform a risk assessment to determine the appropriate personal protective equipment. |
| **Individual protection measures, such as personal protective equipment** | |
| **Eye/face protection** | Avoid contact with eyes. Wear safety glasses with side shields (or goggles). |
| **Skin protection** | |
| **Hand protection** | The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Suggested protective materials: Nitrile and PVC rubber. |
| **Other** | Wear appropriate chemical resistant clothing as needed to prevent direct contact with skin. |
| **Respiratory protection** | In case of insufficient ventilation, wear suitable NIOSH-approved respiratory equipment. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. |
| **Thermal hazards** | Thermal protective clothing not indicate for prescribed use of this product |
| **General hygiene considerations** | When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |

## 9. Physical and chemical properties

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| **Appearance** | |
| **Physical State** | Liquid |
| **Color** | Colorless |
| **Odor** | No significant odor |
| **Odor threshold** | Not available. |
| **pH** | 4.5-6 |
| **Melting/freezing point** | 23°F (-5°C) estimated. |
| **Initial boiling point and boiling range** | >212°F (>100°C). |
| **Flash point** | >392°F (>200°C). |
| **Evaporation rate** | Not available. |
| **Flammability** | Not available. |
| **Flammability Limits** | |
| **Upper** | Not available. |
| **Lower** | Not available. |
| **Vapor pressure** | 22 mm Hg @ 30° (Approximated) |
| **Vapor density** | Not available. |
| **Specific gravity (water=1)** | 1.01 |
| **Solubility in water** | Complete. |
| **Partition coefficient (n-octanol/water)** | Not applicable. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | >150-152°C (Literature-based) |
| **Viscosity** | Not available. |

## 10. Stability and reactivity

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| **Reactivity** | This product is stable and non-reactive under normal conditions of use. |
| **Chemical stability** | Material is stable under normal conditions. Store in a cool dark place. |
| **Possibility of hazardous reactions** | Hazardous polymerization does not occur. |
| **Conditions to avoid** | Material decomposes with the potential to produce a rupture of unvented closed containers. Avoid storing in excessive heat or sunlight. |
| **Incompatible materials** | Combustible materials. nitric acid, organic materials, metals, reducing agents, potassium pentaborate tetrahydrate. |
| **Hazardous decomposition products** | No hazardous decomposition products occur in prescribed storage. Oxygen gas can be liberated at temperatures above ambient. |

## 11. Toxicological information

**Information on likely routes of exposure**

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| **Ingestion** | Do not ingest. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea |
| **Inhalation** | Do not inhale mists. May irritate the upper respiratory tract. |
| **Skin contact** | Can cause skin irritation. |
| **Eye contact** | Can cause serious eye irritation. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Skin irritation, serious eye irritation. Can temporarily turn skin white with prolonged contact. |
| **Acute toxicity** | Analogous products are reported to have low toxicity to humans. |

| **Product** Outdoor Stone Cleaner (CAS mixture) | | |
|---|---|---|
| **Exposure Classification** | **Route and Species** | **LD50** |
| Acute | *Oral*, rat | >26,200 mg/kg estimated. |
| Acute | *Dermal,* rabbit | > 2,570 mg/kg (estimated) |
| *Estimates for product may be based on additional component data not shown | | |

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| **Skin corrosion/irritation** | Can cause skin irritation. |
| **Serious eye damage/ irritation** | Can cause serious eye irritation. |
| **Respiratory sensitization** | Not considered a respiratory sensitizer. |
| **Skin sensitization** | Not considered a skin sensitizer. |
| **Germ cell mutagenicity** | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| **Carcinogenicity** | Components not identified by IARC as a defined group carcinogen. |
| **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** | Not Listed. |
| **Reproductive toxicity** | No data available. |
| **Specific target organ toxicity – single exposure** | May irritate the upper respiratory tract with prolonged inhalation. |
| **Specific target organ toxicity – repeated exposure** | No listed chemicals are classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015) |
| **Aspiration hazard** | No data available. |

## 12. Ecological information

| Ecotoxicity | | |
|---|---|---|
| **Product** Outdoor Stone Cleaner (CAS mixture) | | |
| **Aquatic Receptor** | **Species** | **Test Results** |
| Crustacea | Daphnia magna | $EC_{50}$= >2.8 mg/L (estimated) 48 hours |
| Fish | Fathead minnow (*Pimephales promelas)* | $LD_{50}$= >16.8.4 mg/L (Literature) 72-hour |
| Algae | Pseudokirchneriella subcapitata | NOEC = 0.70 mg/l (Literature) 72-hour |
| *Estimates for product may be based on additional component data not shown | | |

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| **Persistence and degradability** | Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Hydrogen peroxide half-life in freshwater ranges from 8 hours to 20 days, in air from 10 to 20 hours, and in soils from minutes to hours depending upon microbiological activity and metal contamination. Alcohol ethoxylate: considered readily biodegradable. |
| **Bio-accumulative potential** | Expected to be low, will likely degrade before accumulation can occur. |
| **Mobility in soil** | Will likely be mobile in saturated soils but will degrade quickly or adsorb readily to organic fractions. |
| **Other adverse effects** | No other adverse environmental effects known (*i.e. ozone depleting substance, tropospheric ozone precursor, greenhouse gas emission, endocrine disruptor or other deleterious environmental effect*) |

## 13. Disposal considerations

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| **Disposal instructions** | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| **Local disposal regulations** | Dispose in accordance with all applicable regulations. |
| **Hazardous waste code** | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| **Waste from residues/unused product** | 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 contain product residue, follow label warnings even after container is emptied. |

## 14. Transport information

**DOT** Not regulated as dangerous goods.

## 15. Regulatory information

**US federal regulations**

**SARA 302 Extremely hazardous substance** Not listed.

**SARA 304 Emergency release notification** Not listed.

**SARA 311/312 Hazard Categories**

**SARA 313 (TRI reporting)**

**California Proposition 65**

**California Safe Drinking Water and Toxic Enforcement Act of 1986**
This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to threshold determination and Safe Harbor notification (1/2019)

**TSCA –** All chemical components used to manufacture this product comply with the Toxic Substances Control Act (TSCA) registry requirements

## 16. Other information, including date of preparation or last revision

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|---|---|
| **Issue date** | 4/23/2020 |
| **Revision date** | 11/9/2020 |
| **Version #** | 2 |
| **HMIS® ratings** | Health: 1<br>Flammability: 0<br>Physical hazard: 0 |


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|---|---|
| **NFPA ratings** | Health: 1<br>Flammability: 0<br>Instability: 0 |


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| **Disclaimer** | The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text. |
| **Revision information** | Update Composition information in compliance with updated standards. |