

SAFETY DATA SHEET





POWDERED OXYGEN CLEANER

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Trade Name (As Labeled): POWDERED OXYGEN CLEANER
 Product Code: N-53
 Product Use: Scouring and whitening of hard surfaces.
 Synonyms: N-53
 Manufacturer: The Clean Environment Company
 Mailing Address: PO Box 489, Brooklyn, IA 52211
 Company Website: <http://www.cleanevironmentco.com>
 Emergency Phone Number: For First Aid Emergencies, call Poison Control Center at 1-800-222-1222
 Information Phone Number: 844-606-9558 9 a.m. to 5 p.m. CT Mon - Fri except holidays
 Prepared By: The Clean Environment Company
 Company Contact: SDS Coordinator
 Issue Date: Oct. 23, 2016
 Revision: 02
 Revision Date: May 16, 2017

SECTION 2 HAZARDS IDENTIFICATION

| | | |
|--|----------------------------|---|
| Hazardous Materials Identification System (HMIS) Rating Legend: 4-Severe, 3-Serious, 2-Moderate, 1-Slight, 0-Minimal Personal Protection Index: See Section 16 | HEALTH | 3 |
| | FLAMMABILITY | 2 |
| | PHYSICAL HAZARDS | 2 |
| | PERSONAL PROTECTION | E |

| Hazards Classification | | | |
|--|--|-------------|---|
| U.S.A. | This product is considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). | | |
| Global Harmonization System | | | |
| Hazard Statements | Category | Signal Word | Pictogram |
| May intensify fire; oxidizer | Oxidizing Solids, Category 2 | DANGER |  |
| Harmful if swallowed. | Acute Toxicity-Oral, Category 4 | WARNING |  |
| Causes serious eye damage. | Eye Damage/Irritation, Category 1 | DANGER |  |
| Toxic to aquatic life. | Hazardous To The Aquatic Environment – Acute Hazard, Category 2 | None | None |
| Toxic to aquatic life with long lasting effects. | Hazardous To The Aquatic Environment – Chronic Hazard, Category 2 | None |  |
| Precautionary Statements | | | |
| General | Keep out of reach of children. | | |
| Prevention | Keep away from heat. Keep away from clothing and other combustible materials. | | |



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| Prevention (cont.) | Take any precaution to avoid mixing with combustibles. Wear protective gloves such as rubber gloves and eye protection such as safety glasses with side shields, goggles and/or face shield. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. |
| Response | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Refer to Section 4 FIRST AID MEASURES, for additional information. 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 or doctor. Collect spillage. |
| Storage | Store in original container. |
| Disposal | Dispose of contents and container in accordance with local, state, and federal regulations. |
| Hazards Not Otherwise Classified (HNOC) | None known |
| Percent Ingredients With Unknown Acute Toxicity | 0 % of product contains ingredients of unknown acute oral toxicity. Refer to Section 3. |

SECTION 3 COMPOSITION & INFORMATION ON INGREDIENTS

| INGREDIENT | CAS NUMBER | % by wt. ¹ | LD50, Rat |
|---------------------|------------|-----------------------|------------|
| Sodium Carbonate | 497-19-8 | 40 - 60 | 2800 mg/kg |
| Sodium Percarbonate | 15630-89-4 | 40 - 60 | 1034 mg/kg |

¹Where ranges are shown, the exact concentration has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

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| Eyes: | Immediately flush with water for 15 minutes. If contacts are present, remove after first 5 minutes of flushing and continue flushing for 15 minutes. If irritation persists, have eyes examined and treated by medical personnel. |
| Skin: | If irritation occurs, wash thoroughly with soap and water. Call a doctor if irritation persists. |
| Inhalation: | If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if symptoms appear. |
| Ingestion: | NEVER give anything by mouth if victim is unconscious. Have victim drink water to dilute. Do not induce vomiting unless advised by a physician or poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call Poison Control at 1-800-222-1222. |

SECTION 5 FIRE FIGHTING MEASURES

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| Flash Point: | Not available. |
| Extinguishing Media: | As appropriate for surrounding fire. Use dry sand, dry chemical, carbon dioxide or alcohol-resistant foam for extinction. |
| Special Fire Fighting Procedures: | Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. |
| Unusual Fire and Explosion Hazards: | Do not allow water to enter container because of violent reaction. Keep container tightly closed. Powerful oxidizing agent; may ignite oxidizable materials. |



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SECTION 6 ACCIDENTAL RELEASE MEASURES

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| Precautions for Responders | |
| Industrial Setting | Wear appropriate Personal Protective Equipment. See Sec. 8 |
| Spill Containment and Clean-up | |
| Industrial Setting | <p>Before attempting containment and cleanup, refer to hazard data given.</p> <p>Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.</p> <p>Large Spill: Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements, or confined areas; dike if needed. Neutralize the residue with a dilute solution of acetic acid.</p> <p>Any disposal practice must be in compliance with local, state, and federal regulations.</p> |
| Consumer / Household Setting | <p>Use appropriate tools to put the spilled solid in a convenient waste disposal container. Do not dispose of material in residential trash. Call your local solid waste handler for instructions on proper disposal of chemical products. If necessary: Neutralize the residue with house-hold vinegar.</p> |

SECTION 7 HANDLING AND STORAGE

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| Handling | |
| Industrial Setting | <p>Handling: Wear appropriate Personal Protective Equipment (see Section 8). Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, organic materials, metals, acids, moisture.</p> <p>Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not allow water to enter container because of violent reaction.</p> |
| Consumer / Household Setting | Use as directed on product label. |
| Storage | Store in original, labeled container. Keep container closed when not in use. Do not allow water to enter container. Should be stored between 40° and 100°F in order to insure long life of product. |
| Other | KEEP OUT OF REACH OF CHILDREN AND PETS. |

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Exposure Limits | Contains no substances with occupational exposure limit values. |
| Engineering Controls | <p>Industrial Setting: Use explosion-proof ventilation equipment. Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.</p> <p>Consumer/Household Setting: Use in a well ventilated area.</p> |



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| Personal Protective Equipment (PPE) | |
|-------------------------------------|---|
| Industrial Setting | |
| Eye Protection | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. |
| Skin Protection | If prolonged or repeated skin contact is likely, wear appropriate protective gloves. Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items. |
| Respiratory Protection | Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus. |
| Consumer / Household Setting | Safety glasses or goggles should be used for eye protection. Hands should be protected with rubber gloves. |
| Other Measures | Handle in accordance with good industrial hygiene and safety practices. |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------------------------|
| Physical State | Solid, Granular |
| Color | White |
| Clarity | Not applicable. |
| Odor | Mild (characteristic of ingredients) |
| Odor Threshold | Not available. |
| pH | 10.5 (1% solution) |
| Melting Point | Not available. |
| Decomposition Temperature | 122° F |
| Initial Boiling Point and Boiling Range | Not available. |
| Flash Point | Not available. |
| Evaporation Rate | Not available. |
| Upper Explosive Limit (UEL) | Not available. |
| Lower Explosive Limit (LEL) | Not available. |
| Vapor Pressure (mmHg) | Not available. |
| Relative Density (H ₂ O = 1) | Not available. |
| Vapor Density (Air = 1) | Not available. |
| Solubility in Water | 140 g/l |
| Partition Coefficient: n-octonal/water | Not available. |
| Viscosity | Not available. |
| VOC (weight %) | 0 |

SECTION 10 STABILITY AND REACTIVITY

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| Reactivity | Reactive with organic materials, metals, moisture. |
| Chemical Stability | Stable under normal use and temperatures. |
| Possibility of Hazardous Reactions | Highly reactive with reducing agents, acids. |
| Conditions to Avoid | Corrosive in presence of aluminum, of zinc, of copper. Slightly corrosive to corrosive in presence of steel. |
| Incompatible Materials | |
| Industrial Setting | Highly reactive with reducing agents, acids. Reactive with organic materials, metals, moisture. |
| Consumer / Household Setting | Cleaning products should not be mixed with other household chemicals, unless specifically stated in the directions for use. |
| Hazardous Polymerization | Will not occur. |



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SECTION 11 TOXICOLOGICAL INFORMATION

| | |
|------------------------------|---|
| Potential Routes of Exposure | Eyes, Skin, Ingestion, Inhalation |
| Effects of Acute Exposure | |
| Oral Toxicity | LD50 rat: 1034 mg/kg Harmful if swallowed. If swallowed this material will irritate the mucous membranes of the mouth, throat and esophagus. |
| Dermal Toxicity | LD50 rabbit: >2000 mg/kg Causes skin irritation with redness and pain. Long term exposure can result in dermatitis. |
| Inhalation Toxicity | LD50 rat: 4580 mg/kg Causes respiratory tract and mucous membrane irritation. |
| Eye Contact | Causes serious eye damage. Severe watering, irritation and redness, can cause conjunctivitis. |
| Skin Contact | Causes skin irritation with redness and pain. Long term exposure can result in dermatitis. |
| Component Information | Refer to Section 3 for ingredient LD50 (acute oral toxicity). |
| Effects of Chronic Exposure | Not expected to have chronic health effects. |
| Sensitization | Not expected to be a sensitizer, based on literature of products containing similar ingredients. |
| Carcinogenicity | Carcinogenicity classification not possible from current data. |
| NTP | No ingredients listed. |
| IARC | No ingredients listed. |
| OSHA | No ingredients listed. |
| Reproductive Effects | Not expected to have chronic health effects. |
| Teratogenicity | Not expected to have chronic health effects. |
| Mutagenicity | Not expected to have chronic health effects. |
| Target Organ Effects | Not expected to have chronic health effects. |

SECTION 12 ECOLOGICAL INFORMATION

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|-------------------------------|---|
| Ecotoxicity | Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 70.7 mg/l - 96 h. LC50 - (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l. |
| Persistence and Degradability | No data available. |
| Bioaccumulative Potential | Does not bioaccumulate. |
| Mobility in Soil | No data available. |
| Environmental Fate | No data available. |

SECTION 13 DISPOSAL CONSIDERATIONS

| | |
|------------------------------|--|
| Waste Disposal | Dispose of in accordance with federal, state, and local regulations. |
| Industrial Setting | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. |
| Consumer / Household Setting | Residue remaining in container may be discarded in trash. Quantities greater than residue: Do not dispose of material in residential trash. Call your local solid waste handler for instructions on proper disposal of chemical products. |
| EPA Hazardous Waste Number: | None. |
| EPA Hazard Waste Class: | None. |
| Empty Containers | Do not re-use empty containers. |



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SECTION 14 TRANSPORT INFORMATION

| | |
|------------------------------|--------------------------------|
| U.S. DOT (Surface Transport) | Road and Rail Transport |
| Proper Shipping Name: | Sodium Carbonate Peroxyhydrate |
| Hazard Class: | 5.1 |
| UN Number: | 3378 |
| Packaging Group: | 3 |

SECTION 15 REGULATORY INFORMATION

| | |
|---------------------------|--|
| TSCA | All components of this product are listed on the TSCA inventory list. |
| SARA 302 | No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| SARA 311/312 | Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard. |
| 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. |
| CERCLA | This material, as supplied, does not contain any substances regulated as hazardous substances under CERCLA. There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material. |
| Clean Air Act, Sec. 112 | This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990. |
| Clean Water Act | This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) |
| California Proposition 65 | This product is not subject to warning labeling under California Proposition 65 |

SECTION 16 OTHER INFORMATION

ABBREVIATIONS

| | |
|--------|---|
| ~ | Approximately |
| < | Less than |
| > | Greater than |
| ≤ | Less than or equal to |
| CERCLA | The Comprehensive Environmental Response, Compensation, and Liability Act |
| EPA | Environmental Protection Agency |
| HMIS | Hazardous Materials Information System |
| GHS | The Globally Harmonized System of Classification and Labelling of Chemicals |
| IARC | International Agency for Research on Cancer |
| NA | Not Applicable |
| NDA | No Data Available |
| NFPA | National Fire Protection Association |
| NI | Not Indicated |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PPE | Personal Protection Equipment |
| SARA | Superfund Amendments and Reauthorization Act of 1986, Title III |
| SDS | Safety Data Sheet |
| TSCA | Toxic Substances Control Act |



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SECTION 16 (continued)

| PERSONAL PROTECTION INDEX | | | |
|---------------------------|---------|---|---|
| A | | G | + + |
| B | + | H | + + + |
| C | + + | I | + + |
| D | + + + | J | + + + |
| E | + + | K | + + + |
| F | + + + | X | Consult your supervisor or S.O.P. for "SPECIAL" handling directions |

| | |
|------------------|--|
| SDS Prepared By | The Clean Environment Co. |
| Issue Date | Oct. 23, 2016 |
| Revision | 02 |
| Revision Date | May 16, 2017 |
| Revision Note(s) | Revised format per 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). |

Disclaimer:

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End of Safety Data Sheet