



Product Name: O2 Plus
Revision Date: 5/15/2015

SAFETY DATA SHEET

SECTION 1	MATERIAL AND MANUFACTURER IDENTIFICATION
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PRODUCT

Product Identifier: O2 Plus
Intended Product Use: Detergent Booster Oxidizer
Manufacturer Identification Code: N/A

MANUFACTURER

Chemical Technologies International Inc.
P.O. Box 968
Rancho Cordova, CA 95741 USA
Phone: (916) 638-1315 Fax: (916) 638-0712
24 hours Emergency Assistance Calls (USA): CHEMTREC (800) 424-9300

Please reference name and manufacturers identification number

SECTION 2	HAZARD(S) IDENTIFICATION
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OSHA Hazards

Oxidizer, Harmful by ingestion, Irritant

GHS Classification

Oxidizing solids (Category 2)
Acute toxicity, Oral (Category 4)
Acute toxicity, Dermal (Category 5)
Skin irritation (Category 3)
Serious eye damage (Category 1)

Routes of Exposure: Eye contact, skin contact, inhalation, and ingestion.

Inhalation: Inhalation of mist or vapor may cause severe irritation of the respiratory tract. Overexposure may result in coughing, choking or shortness of breath.

Eye Contact: Vapors/mist may irritate eyes. Irritation is characterized by redness, itching, or watering of eyes. Direct or prolonged contact with eyes will be painful and irritating; seek immediate medical attention for prolonged irritation.

Skin Contact: Repeated exposure may cause skin irritation, inflammation, drying, and/or chapping.

Ingestion: If swallowed may cause GI irritation with abdominal pain, nausea, vomiting, diarrhea, violent colic, and possible gastric hemorrhaging. Seek immediate medical attention.

Acute Effects: This product is considered to be a potential irritant.



Health hazard	2
Flammability hazard	0
Reactivity hazard	2
Other hazard	OX

Signal word: **WARNING**

Hazard statement(s): **H272 May intensify fire; oxidizer.**
H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H316 Causes mild skin irritation.
H318 Causes serious eye damage.



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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS #	CONCENTRATIONS
Sodium Percarbonate	15630-89-4	100%

SECTION 4 FIRST-AID MEASURES

Inhalation: Remove from further exposure to fresh air. If respiratory irritation, dizziness, or nausea occurs seek immediate medical attention. If breathing stops, have trained person administer oxygen with a resuscitation mouth cover. Seek immediate medical attention.

Eye Contact: Flush eyes with a directed stream of water for 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes immediately after exposure is essential to achieve maximum effectiveness and minimize potential irritation. If irritation persists, seek immediate medical attention.

Skin Contact: Wash contact areas with soap and water. Launder exposed clothing before reuse.

Ingestion: If swallowed, do not induce vomiting. Seek immediate medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

FLAMMABILITY PROPERTIES

Flashpoint: non-flammable/non-combustible

Flammable Limits: Not Available

Auto ignition Temperature: Not Available

FIREFIGHTING PROCEDURES

General Hazard: During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame.

Firefighting Instructions: Evacuate all unnecessary personnel. Keep away from heat, sparks and open flame. Use water, alcohol foam, dry chemical or CO₂. Use water or foam to cool surrounding containers.

Firefighting Equipment: Firefighters should wear NIOSH/MSHA approved self-contained, positive pressure breathing apparatus and full protective clothing.

Hazardous Combustion Products: Hazardous combustion products may be but not limited to carbon oxides and sodium oxides.

Unusual Fire and Explosion Hazards: No known unusual fire/explosion hazards. Keep away from strong oxidizing, reducing and acidic agents.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Persons performing the clean up should wear personal protective equipment sufficient to keep material away from skin. Avoid direct contact with material. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust. See section 4 for First-Aid Advice. See section 5 for Firefighting Advice.

PROTECTIVE MEASURES

To minimize exposure to all chemicals, including this product, use good industrial hygiene and common sense. Use only in well ventilated area. If necessary, use exhaust ventilation to insure adequate ventilation. Insure that water is readily available and that you are prepared to properly wash out your eyes should the need arise. (See section 4 for more advice). Wear NIOSH/MSHA approved organic respirator when ventilation is not adequate or when the sufficiency of ventilation to maintain concentrations below exposure limits is in question. Wear chemical safety goggles to protect against splashes or contact with eyes. See OSHA 29 CFR 1910.33



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CLEAN-UP PROCEDURES

Small Spills: Sweep up to dispose of spill in DOT approved waste container.

Large Spills: Contain (if needed, with soil or other non-combustible absorbent material) and dispose into DOT approved waste container. If possible complete clean up on a dry basis. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste. Contain all spills or leaks to prevent discharge into the environment. Responsibility of all spills or releases reported to the appropriate local, state and federal agencies falls upon the user.

SECTION 7	HANDLING AND STORAGE
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HANDLING

This product is professional strength product to be used by professionals only. Avoid breathing vapors/mist of this product. Always keep container tightly closed and properly labels. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Impervious boots/shoes covering should be used if material is anticipated to contact feet. As with all chemicals, practice good industrial hygiene when handling this product. Always work in a well-ventilated area and avoid inhalation of product dust. Do not ingest.

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

STORAGE

Avoid excessive heat. Avoid storage with oxidizing or reducing agents and/or acids. Avoid storage with combustible organic materials. Employees should be trained to handle this product safely. Loosen closures cautiously. Store the product in a cool dry area away from ignition sources.

Storage temperature: Store in cool dry place.

Storage pressure: Atmospheric

SECTION 8	EXPOSURE / PERSONAL PROTECTION
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EXPOSURE LIMITS

Exposure limits have not been established for this mixture. Avoid, as far as reasonably practicable, inhalation of vapor, mists or fumes generated. Limits for components are listed below:

COMPONENT #	OSHA PEL TWA STEL	ACGIH TLV TWA STEL	NIOSH TWA STEL
No reportable components	Not established	Not established	Not established

ENGINEERING CONTROLS

The level of protection and types of control will vary depending upon potential exposure conditions. If user operations generate dust, fume or mist, use adequate ventilation to keep exposure below exposure limit. This product is non-hazardous and are unnecessary precautions when used for intended purpose as directed.



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PERSONAL PROTECTION

Ventilation and engineering controls: Use only in well ventilated area. If necessary, use exhaust ventilation to insure adequate ventilation. Insure that water is readily available and that you are prepared to properly wash out your eyes should the need arise. (Refer to section 4).

Respiratory: Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Eye Protection: Wear safety goggles to protect against eye contact. See OSHA 29 CFR 1910.33

Skin: Wear chemical impervious gloves. Gloves are recommended be inspected before use. Dispose of gloves after use in accordance with applicable laws and good laboratory practices. Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

Other: One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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Physical State and Appearance: Solid

Odor: Not Available

Vapor density: Not Available.

Freezing point: Not Available.

Solubility in water: Soluble

Flammability: Non-flammable Liquid

Viscosity: Not Available.

Flash point: No flammable/combustible

Evaporation rate: Not Available.

Vapor pressure: Not Available.

Color: White

pH: Not Available

Boiling point: Not Available.

Melting point: Not Available.

Density: Not Available.

Evaporation rate: Not Available.

Vapor density: Not Available.

Relative density: Not Available.

Flammability (solid, gas): Not Applicable.

Vapor density: Not Available.

SECTION 10	STABILITY AND REACTIVITY
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Chemical Stability: Stable under ambient temperature and atmospheric pressure.

Conditions to avoid: None known.

Incompatibility with other materials: Heavy metals, combustible organic materials, reducing agents and powdered metals

Hazardous decomposition products: Major components of this mixture show no hazardous decomposition if used as directed. Hazardous decomposition is formed under fire conditions.

Hazardous polymerization: Major components of this mixture show no hazardous polymerization.

Conditions to Avoid: Oxidizing agents, Bases, Reducing Agents and Nitrites.



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SECTION 11	TOXICOLOGICAL INFORMATION
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Acute toxicity

Oral LD50

LD50 Oral - rat - 1,034 mg/kg

Inhalation LC50

no data available

Dermal LD50

LD50 Dermal - rabbit - > 2,000 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation

Skin - rabbit - Mild skin irritation

Serious eye damage/eye irritation

Eyes - rabbit - Severe eye irritation

Respiratory or skin sensitization

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin Harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12	ECOLOGICAL INFORMATION
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Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 70.7 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC0 - Daphnia magna (Water flea) - 2 mg/l - 48 h

EC50 - Daphnia magna (Water flea) - 4.9 mg/l - 48 h

SECTION 13	DISPOSAL CONSIDERATIONS
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Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains or any body of water. All disposal methods must be in compliance with all federal, State/ Province and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.



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SECTION 14	TRANSPORT INFORMATION
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DOT(US):

These shipments are ORM-D and exempt from Bill of Lading requirements when sent via ground under 1 Liter when packaged for retail sale per 49 CFR 173.152. If product exceeds 1 Liter then will comply with the following:

UN Number: 1479

Proper Shipping Name: Oxidizing Solid, N.O.S. (Contains Sodium carbonate peroxyhydrate)

Hazard Class: 5.1

Labels: 5.1 (Oxidizer)

Packing Group: III

IMDG:

Basic Description: UN1479, Oxidizing Solid, N.O.S. (Contains Sodium carbonate peroxyhydrate), 5.1, III, LTD QTY

Marine Pollutant: Yes

*Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.152 LTD QTY & ORM-D
Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

SECTION 15	REGULATORY INFORMATION
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US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheet (SDS) sheets, training and access to written records. We request that you, as per your legal duty to, make all information in this SDS available to your employees and those who handle or consume the product. To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below

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 reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Reactivity Hazard, Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Disodium carbonate, compound with hydrogen peroxide (2:3) CAS-No.15630-89-4

New Jersey Right To Know Components

Disodium carbonate, compound with hydrogen peroxide (2:3) CAS-No. 15630-89-4

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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.



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SECTION 16	OTHER INFORMATION
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While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. This SDS summarizes to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources of each individual component. Since CTI cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. Users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.