



Oxygen Brightener

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 12/21/2018

Revision date: 04/25/2024

Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Oxygen Brightener

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laundry booster and bleach alternative

1.3. Supplier

Meliora K, LLC (dba Meliora Cleaning Products)
2010 W. Fulton Street
STE F-236
Chicago, IL 60612
(312) 635-2297

1.4. Emergency telephone number

Emergency number : (312) 721-8002 (9-5 M-F)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Ox. Sol. 2 H272
Acute Tox. 4 (Oral) H302
Eye Dam. 1 H318

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H272 - May intensify fire; oxidizer.
H302 - Harmful if swallowed.
H318 - Causes serious eye damage.

Precautionary statements (GHS US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 - Keep/Store away from clothing and other combustible materials.
P221 - Take any precaution to avoid mixing with combustibles.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing, chemical goggles, & face protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call poison center/doctor/...
P330 - Rinse mouth.
P370+P378 - In case of fire: Use water to extinguish.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % |
|---------------------|----------------------|---------|
| Sodium percarbonate | (CAS-No.) 15630-89-4 | 30 – 60 |
| Sodium carbonate | (CAS-No.) 497-19-8 | 30 – 60 |

* In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret.

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention immediately.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Harmful if swallowed. Causes serious eye damage.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause skin irritation.
- Symptoms/effects after eye contact : Causes serious eye damage.
- Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : For small fire: Use water.
For large fire: Flood fire area with water from a distance.
- Unsuitable extinguishing media : Do not use dry chemicals or foams. CO₂ or Halon® may provide limited control.

5.2. Specific hazards arising from the chemical

- Fire hazard : May intensify fire; oxidizer.
- Explosion hazard : Product is not explosive. Under fire conditions closed containers may rupture or explode.
- Reactivity : Oxidizing agent; may cause spontaneous ignition of combustible materials.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Prevent human exposure to fire, fumes, smoke and products of combustion.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid dust formation.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eye or face protection. Avoid skin and eye contact. Keep unprotected persons away. For further information refer to section 8: "Exposure controls/personal protection".

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Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so.

Methods for cleaning up : Keep combustibles (wood, paper, oil, etc.) away from spilled material. Minimize generation of dust. On land, sweep or shovel into suitable containers. Do not get water inside containers. Cover container loosely. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from direct sunlight. Keep container closed when not in use.

Incompatible materials : Ammonia. Chlorine. Strong acids. Strong bases. Combustible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Sodium percarbonate (15630-89-4) | | |
|----------------------------------|----------------|----------------------|
| ACGIH | Remark (ACGIH) | OELs not established |
| OSHA | Remark (OSHA) | OELs not established |
| Sodium carbonate (497-19-8) | | |
| ACGIH | Remark (ACGIH) | OELs not established |
| OSHA | Remark (OSHA) | OELs not established |

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):



Personal protective equipment:

Wear chemical goggles and face shield in combination. Gloves. Protective clothing.

Hand protection:

Wear protective gloves. Use gloves appropriate to the work environment. Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable.

Eye protection:

Chemical goggles or safety glasses. Use eye protection suitable to the environment. Avoid direct contact with eyes.

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

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Respiratory protection:

Wear appropriate mask. Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------------|
| Physical state | : Solid |
| Appearance | : Powder |
| Color | : White |
| Odor | : Odorless |
| Odor threshold | : No data available |
| pH | : 9 – 10 |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : Non-flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : May intensify fire; oxidizer. |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizing agent; may cause spontaneous ignition of combustible materials.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Sources of ignition.

10.5. Incompatible materials

Chlorine. Ammonia. Strong acids. Strong bases. Combustible materials.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Sodium percarbonate (15630-89-4) | |
|---|----------------------------------|
| LD50 oral rat | 1034 mg/kg (Source: OECD_SIDS) |
| LD50 dermal rabbit | > 2000 mg/kg (Source: OECD_SIDS) |

| Sodium carbonate (497-19-8) | |
|------------------------------------|--|
| LD50 oral rat | 4090 mg/kg (Source: NLM_HSDB) |
| LD50 dermal rat | 2210 mg/kg mouse |
| LD50 dermal rabbit | > 2000 mg/kg (Source: ECHA) |
| LC50 Inhalation - Rat | 2300 mg/m ³ (Exposure time: 2 h Source: ECHA_API) |

Skin corrosion/irritation : Not classified
pH: 9 – 10

Serious eye damage/irritation : Causes serious eye damage.
pH: 9 – 10

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects : Harmful if swallowed. Causes serious eye damage.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No information available.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Sewage disposal recommendations : Do not discharge to public wastewater systems without permit of pollution control authorities.
No discharge to surface waters is allowed without a permit.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT) : UN3378 Sodium carbonate peroxyhydrate, 5.1, II

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UN-No.(DOT) : UN3378
Proper Shipping Name (DOT) : Sodium carbonate peroxyhydrate
Class (DOT) : 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
Packing group (DOT) : II - Medium Danger
Hazard labels (DOT) : 5.1 - Oxidizer



DOT Quantity Limitations Passenger aircraft/rail : 5 kg
(49 CFR 173.27)
DOT Quantity Limitations Cargo aircraft only (49 : 25 kg
CFR 175.75)
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
passenger vessel.
DOT Vessel Stowage Other : 13 - Keep as dry as reasonably practicable, 25 - Protected from sources of heat, 75 - Stow
"separated from" permanganates
Emergency Response Guide (ERG) Number : 140
Other information : No supplementary information available.

Transport by sea (IMDG)

Transport document description (IMDG) : UN 3378 SODIUM CARBONATE PEROXYHYDRATE, 5.1, II
UN-No. (IMDG) : 3378
Proper Shipping Name (IMDG) : SODIUM CARBONATE PEROXYHYDRATE
Class (IMDG) : 5.1 - Oxidizing substances
Packing group (IMDG) : II - substances presenting medium danger

Air transport (IATA)

Transport document description (IATA) : UN 3378 Sodium carbonate peroxyhydrate, 5.1, II
UN-No. (IATA) : 3378
Proper Shipping Name (IATA) : Sodium carbonate peroxyhydrate
Class (IATA) : 5.1 - Oxidizing Substances
Packing group (IATA) : II - Medium danger

SECTION 15: Regulatory information

15.1. US Federal regulations

| Oxygen Brightener | |
|--|---|
| All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA | |
| SARA Section 311/312 Hazard Classes | Physical hazard - Oxidizer (liquid, solid or gas) Health hazard - Acute toxicity (any route of exposure) Health hazard - Serious eye damage or eye irritation |

15.2. International regulations

No additional information available

15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

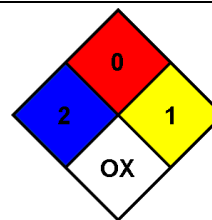
Revision date : 04/25/2024
Other information : Author: EMA.

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| | |
|----------------------|---|
| NFPA health hazard | : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. |
| NFPA fire hazard | : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. |
| NFPA reactivity | : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures. |
| NFPA specific hazard | : OX - Materials that posses oxidizing properties. |
| HMIS Hazard Rating | |
| Health | : 2 |
| Flammability | : 0 |
| Physical | : 1 |



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.