

# Product Safety Data Sheet

## 1. Product and company information

Product name	
Company name	OXIDEN
address	CLO2 Lab Co., Ltd.
Division in charge	11-18-1F Matsuocho, Nishinomiya City, Hyogo Prefecture
telephone number	research and development
Fax number	headquarters
	0798-56-9623
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Created on December 18, 2019

Revised: June 21, 2021

## 2. Summary of hazards

### [GHS Classification]

#### Physicochemical hazards

Explosives	Cannot be classified
Flammable solids	Cannot be classified
Self-reactive chemicals	Cannot be classified
Spontaneously ignitable solids	Cannot be classified
Self-heating chemicals	Cannot be classified
Water reaction flammable chemicals	Cannot be classified
Oxidizing solids	Cannot be classified
Organic peroxides	Cannot be classified
Metal corrosive substances	Cannot be classified

#### Health hazards

Acute toxicity (oral)	Category 3
Acute toxicity (transdermal)	Category 2
Acute toxicity (inhalation: steam)	Cannot be classified
Acute toxicity (inhalation: dust, mist)	Category 2
Skin corrosion/irritation	Category 2
Severe damage/irritation to the eye	Category 1
Respiratory sensitization	Cannot be classified
Skin sensitization	Cannot be classified
Germ cell mutagenicity	Category 2
Carcinogenic	Cannot be classified
Reproductive toxicity	Cannot be classified
Specific target organ toxicity (single exposure)	Category 2 (Respiratory System)
Specific target organ toxicity (repeated exposure)	Category 2 (Heart)

Inhalation respiratory hazard	Cannot be classified
Environmentally harmful	
Aquatic environmental hazards (acute)	Category 1
Harmful to the aquatic environment (chronic)	Category 1
Harmful to the ozone layer	Cannot be classified

Hazards not listed above are not classified.

[GHS Label Element]

Picture display or symbol



Signal word

Danger

Hazard information

Toxic when swallowed  
Harmful if in contact with skin  
Skin irritation  
Strong eye irritation  
Suspected hereditary diseases  
Risk of respiratory disorders  
May cause heart damage due to prolonged or repeated exposure  
Long-term continuous shadowing provides very strong toxicity to aquatic life

Safety measures

Do not handle all safety notes until you have read and understood them.  
Do not inhale dust/smoke/gas/mist/vapor/spray.  
Do not apply to eyes, skin, or clothing.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in well-ventilated areas.  
Avoid emissions into the environment.  
Wear protective gloves/ protective clothing/ protective glasses/ protective surfaces.  
If ventilation is insufficient, wear a respiration device.

First aid

If swallowed

Contact your doctor immediately.

If on skin

Wash with a large amount of water and soap.

Inhalation	Move to a fresh place of air and rest in a position that is easy to breathe.
If in eyes	Wash carefully with water for a few minutes. Next, if you are wearing contact lenses and can be easily removed, remove them. Continue cleaning afterwards.
If you are concerned about exposure or exposure	Seek medical advice/attention. Contact your doctor immediately. If you feel sick, seek medical advice/attention. Rinse your mouth. Seek medical advice/attention.
Skin irritation	Immediately take off all contaminated clothing and wash it when re-using it. Take off contaminated clothing and wash when re-using. Collecting waste.
Storage	Store in a well-ventilated place. Keep the container sealed. Lock and store.

### 3. Composition and ingredient information

Mixture/Substance selection	mixture
Chemical properties	Oxidizing solids
Chemical name	Sodium chlorite, acid agent, foaming agent
CAS Number	7758-19-2
Concentration or concentration range	Undisclosed
Official Gazette Number (Act on The Trial of The Civil Code)	(1)-238

### 4. First-aid measures

If on skin	Immediately rinse with a large amount of water, then wash well with soap.
If in eyes	Immediately wash the eyes with a large amount of water for at least 15 minutes.
If swallowed	Immediately wash the mouth with water. In either case, consult your doctor immediately.

### 5. Fire-fighting measures (in the time of a surrounding fire)

Suitable extinguishing media	Use fire extinguishing agents in response to surrounding fires.
Unsuitable extinguishing Media	No particular.
Unique fire extinguishing methods	If it is not dangerous, move the container out of the fire area.

### 6. Measures in the time of leakage

It can damage the human body and clothes, so rinse thoroughly with plenty of water, taking care not to touch it. If it cannot be washed off,

it is decomposed with the reducing agent sodium thiosulfate.

## 7. Handling and storage precautions

### Handling

#### Technical measures

This tablet must be dissolved in a sealable container containing more than 1L of water.

Never wet this tablet with water because a small amount of water will produce a high concentration of chlorine dioxide gas.

Do not let anyone other than a professional supplier handle it.

Be careful because tablets may be damaged by impact such as drops.

### custody

#### Conditions of custody

Avoid direct sunlight, high temperatures and humidity, and store in a cool and dark place.

Do not keep it within reach of infants.

## 8. Anti-exposure and protective measures

### Manage concentration

Not set

### Allowable concentration:

Japanese Society of

Not set

Occupational Health

ACGIH

Not set

### Protective gear

Respiratory protective  
equipment

Halogen gas anti-toxic mask

Hand protective equipment

Impervious protective gloves

Eye protection

Protective glasses (goggle type), face shield

Skin and body protective  
equipment

Long-sleeved work clothes, boots, front hooks

## 9. Physical and chemical properties

Physical condition, shape,  
etc.

White tablets

stinking

None

density

No data

melting point

Decomposes at 180-200°C.

boiling point

No data

Ignition point

No data

Spontaneous ignition

Non-flaring

temperature

Combustion or explosion

None

range

vapor pressure	No data
Steam density	No data
solubility	Water:436g/L(25°C)
Octanol/Water Distribution Factor	No data
Decomposition temperature	No data
pH	No data

## 10. Stability and responsiveness

Stability	Stable at room temperature and pressure
Risky adverse reaction potential	When dissolved in water, it reacts to cause chlorine dioxide. If the concentration of chlorine dioxide becomes high in a closed system (10 vol% or more), there is a risk of decomposition explosion.
Conditions to avoid	Contact with heating, impact, friction, combustibles, igniting materials, and hazardous substances
Hazardous substances for mixing	No data
Dangerous degradable organisms	No data

## 11. Harmful information

Acute toxicity (oral)	Rat LD50>300mg/kg Category 4
Acute toxicity (transdermal)	Rabbit LD50 / ATE>1000mg/kg Category 3
Mist inhalation toxicity	Rat LD50>0.5mg/kg Category 3
Skin irritation	Rabbit Weak Stimulation Category 2
Eye irritation	Irritating Category 2
Germ cell mutagenicity	Negative orally Category 2
Carcinogenic	distinguished
Reproductive toxicity	distinguished

Since there is no 10% figure, the above figure applied a more toxic 25%.

## 12. Environmental impact information

Ecotoxicity	Crustacean (Daphnia magna) EC50 (48h) 0.0146ppm In the addition formula, EC 50 (48h) = 0.1 mg / l was set to Category 1. The chronic toxicity was classified into Category 1 because the behavior or bioaccumulation in water was unknown. Chlorine dioxide water is effective as a water purification action if it is a small amount of several ppm or less, but at high concentrations, there is a risk of invading fish and plants.
Peri-resistant and degradable	No data

Bioaccumulation	No data
Mobility in soil	No data
Harmful to the ozone layer	No data

### 13. Disposal notes

When disposing of the contents, it is performed after removing the contents.

### 14. Transportation Notes

International regulations	Not applicable
UNITED NATIONS NO.	1496
United Nations Packaging Grade	Sodium chlorite
Domestic regulations	Class 5.1
IMDG	5.1
Special safety measures	When transporting, avoid direct sunlight, load containers so that they do not break, corrode, or leak, and ensure that cargo collapse is prevented.
First-time response guideline number	Do not stack heavy objects. 154

### 15. The applicable act

Fire protection law	Not applicable
Industrial Safety and Health Act	Not applicable to the substance to be displayed, not applicable to the substance to be notified
Poisonous and Deleterious Substances Control Law	Not applicable
Marine Pollution Control Act	Marine pollutants (Article 38-4 of the Act, Article 30-2-3, Notification no. 323 of the Ministry of Transport in 1992)
Ship Safety Act	Corrosive substances (Dangerous Matter Article 3 Dangerous Goods Notice Table 1)
Aviation law	Corrosive substances (Article 194, Hazardous Materials Notice Table 1)
Road law	Non-applicable
Act on Promotion of Chemical Substance Management (PRTR)	Non-applicable

### 16. Other information

References	Revised 3rd Edition Chemical Law Collection Chemical Daily (2001) Chemical Substance Safety Databook Revised Supplementary Edition
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Chemical Substance Safety Information Study Group (1997)

All data on substances subject to MSDS under the revised Industrial Safety and Health Act Chemical Daily (2003)

Pharmaceutical University Law, Pharmacists Act, Poisonous and Deleterious Substances Control Law Commentary No.14 Pharmaceutical Daily (2004)

Limited responsibility

This SDS is based on the materials, information, data, etc. currently available, but does not guarantee the accuracy or completeness of the information. In addition, since the cautionary section is for normal handling, when handling specially, please use it after implementing safety measures suitable for use and usage.