

SARAYA

SARAYA CO., LTD. SAFETY DATA SHEET

Product name: Clean.Pro Disinfecting Bleach

Preparation Date : Jan. 16, 2024

Revision Date : -

Review Date : -

Revision No. : -

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name Clean.Pro Disinfecting Bleach

Supplier SARAYA CO., LTD.
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Global Operations Division
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Recommended use of the product and restrictions on use

Recommended use For sterilization of bleaching clothes, cutting boards, etc.
Sodium hypochlorite for professional-use.

Restrictions on use Use the product only for the recommended purposes.

2. HAZARDS IDENTIFICATION

GHS Classification

Health Hazards

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity following single exposure	
Respiratory tract irritation	Category 3

Environmental hazards

Hazardous to the aquatic environment short-term (acute)	Category 1
Hazardous to the aquatic environment long-term (chronic)	Category 1

GHS label elements

Pictograms



Signal words

Danger



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Hazard statements

Causes severe skin burns and eye damage.
May cause respiratory irritation.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Precautionary statements

[Prevention]

Do not breathe dust, fumes, gas, mist, vapors or spray.
Wash hands, eyes and throat thoroughly after handling.
Wear protective gloves, protective clothing, eye protection and face protection.
Wash contaminated clothing before reuse.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.

[Response]

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a doctor.
Specific treatment (see Section 4, First Aid Measures)
Call a doctor if you feel unwell.
Collect spillage.

[Storage]

Store locked up.
Store in a well-ventilated place. Store in a closed container.

[Disposal]

Disposal of contents or container should be done in accordance with local, regional, national and international regulations.

Other hazards which do not result in classification

Contact with acids liberates toxic chlorine gas.
Causes corrosion of metals and most natural fibers.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Preparation

Substance

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Chemical name	CAS No.	Concentration (%w/w)
SODIUM HYPOCHLORITE	7681-52-9	5-6

4. FIRST AID MEASURES**Inhalation**

Immediately evacuate the patient to a well-ventilated area and allow the patient to rest.

Immediately seek medical attention. It may be fatal if medical attention is delayed.

Skin contact

Wash off the product with plenty of water. Immediately remove clothing and shoes contaminated by the product. May cause skin irritation if medical attention is delayed.

Eye contact

Immediately flush eyes with clean running water for at least 15 minutes, and then immediately seek medical attention. May cause loss of vision if medical attention is delayed.

Ingestion

Do not induce vomiting. Immediately rinse mouth with water and drink plenty of water, milk or raw eggs (Do not administer to people who have an allergy to them) (Do not give anything by mouth to an unconscious individual). Immediately seek medical attention. In case ingesting a large amount of thick solution, it may be fatal if medical attention is delayed.

Most important symptoms/effects, acute and delayed

Accidental ingestion may cause burns and sharp pain in the mouth, esophagus and stomach. In rare cases, pinholes may develop in the esophagus or stomach.

Contact with acids liberates chlorine gas that can cause skin inflammation.

Degree of corrosiveness is similar to caustic soda (sodium hydroxide), and it irritates the skin and mucus membranes.

If skin is exposed for prolonged periods of time, irritation may lead to eczema or dermatitis.

If the product gets in the eyes, it will cause severe eye irritation. Affects the cornea if not immediately flushed out.

Inhalation of poisonous chlorine gas may result in breathing difficulties.

Inhalation of product mist irritates the respiratory tract membrane, and causes hoarse voice, sharp throat pains, intense coughing and pulmonary edema.

5. FIRE FIGHTING MEASURES**Suitable extinguishing media**

If fire does occur in the surrounding area, use suitable extinguishing media for that type of fire.



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Unsuitable extinguishing media

Not known

Specific fire extinguishing methods

Product itself is non-combustible. If fire does occur in the surrounding area, transfer the container to a safe place. If impossible, sprinkle the container and the circumference with water to protect the container.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment and emergency procedures

Wear personal protective equipment, such as eye protection, mask and rubber gloves during spill recovery operations.

Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

Spilled material may harm humans and damage clothing. Carefully avoiding contact, wash away the spilled material with large amounts of water.

Inspect containers to ensure there is no risk of further leakage.

Do not neutralize product with acid. Toxic chlorine gases will be produced.

7. HANDLING AND STORAGE

Technical Measures

Take measures to the facilities described in Section 8. Exposure Controls/ Personal Protection and wear personal protective equipment.

Precautions for safe handling

- (1) Take care when opening the cap to avoid spilling the product.
- (2) Metallic contamination or an increase in liquid temperature will act to hasten decomposition of the product, which may result in liquid overflow.
- (3) Use only specified containers when transferring the product. Take care to avoid material spills when transferring the product, and use only specified containers that have been cleaned first.
- (4) Use only in a well-ventilated area.
- (5) Do not use in combination with other cleaners.
- (6) Use water at room temperature or cold water for dilution. DO NOT use hot water for dilution.
- (7) Set-up hand and eye washing stations near the areas where the product is stored or handled.

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- (8) If accidentally mixed with acid, immediately wash away with large amounts of water. If sodium hydroxide or other alkaline materials are found near the vicinity, add them to prevent further emission of chlorine gas. If there is a danger that large amounts of chlorine gas will spread to the surrounding area, contact the proper personnel and evacuate to an upwind position.
- (9) Use the product only for the intended purposes.
- (10) Avoid using undiluted product.
- (11) Do not use for bleaching sesame seeds.
- (12) When not feeling well, do not use the product. If you feel unwell or eye irritation during use, stop using immediately and move away from the work area. Flush your eyes with water, wash eyes and gargle.

Avoidance of Contact

Refer to Section 10. Stability and Reactivity.

Storage**Conditions for safe storage**

- (1) Keep out of direct sunlight in a cool, dark place. Close lid tightly after use.
- (2) Keep out of reach of children.
- (3) Taking into consideration that the material may spill, store the product in a designated area where the harm to humans and damage to surrounding materials are kept to a minimum.
- (4) Long-term storage will result in a decrease in the effective chlorine concentration.

Compatible materials for storage container

Use only dedicated container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameter**

Japan Society for Occupational Health (1992): Not listed.

ACGIH (1992-1993): Not listed.

Appropriate engineering control

Keep area well ventilated. Furthermore, if the product is to be used in large amounts, it is preferable to use local and/or building exhaust systems and install hand washing and emergency eye washing stations.

Personal protection

Wear protective equipment such as eye protection and rubber gloves.

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Physical state	Liquid
Color	Clear, light yellow green
Odor	Chlorine odor
Boiling point or initial boiling point and boiling range	Not known
Flammability	Not known
Lower and upper explosion limit /flammability limit	Not known
Flash point	Not known
Auto-ignition temperature	Not known
Decomposition temperature	Not known
pH	11.8-12.4
Kinematic viscosity	Not known
Solubility	Easily soluble in water
Vapor pressure	Not known
Density and/or relative density	1.072 (20°C)
Relative vapor density	Not known
Particle characteristics	Not known

10. STABILITY AND REACTIVITY**Reactivity**

Not self-reactive. Not explosive.

Reacts with acids, liberating toxic chlorine gas.

Highly corrosive to metals.

Chemical stability

Gradually decomposes at room temperature, producing oxygen and a salt.

Extremely unstable when in contact with air, heat, light and metals. If left in contact, gradually lose effective chlorine concentration.

Possibility of hazardous reactions

Not self-reactive. Not explosive.

Reacts with acids, liberating toxic chlorine gas.

Highly corrosive to metals.

Conditions to avoid

Do not use a metallic container because it is corrosive to metal.

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Contact with acids liberates chlorine gas. Decrease in pH can lead to the liberation of chlorine gas.

Hazardous decomposition products

Mixing with acids liberates chlorine gas.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Classification not possible

Skin corrosion/irritation

Category 1 (causes severe skin burns and eye damage)

Serious eye damage/eye irritation

Category 1 (causes serious eye damage)

Respiratory sensitization/skin sensitization

Classification not possible

Germ cell mutagenicity

Not classified

Carcinogenicity

Classification not possible

Reproductive toxicity

Classification not possible

Specific target organ toxicity following single exposure

Category 3 (may cause respiratory irritation)

Specific target organs toxicity following repeated exposure

Classification not possible

Aspiration hazard

Classification not possible

Reference values for sodium hypochlorite:**Eye irritation:**

Strong irritant. May damage the cornea.

Acute toxicity:

Mouse, oral LD₅₀ Male: 6.8 mL/kg, Female: 5.8 mL/kg (10% solution) (Reference material 10)

Child oral lethal dose 15-30mL (5% solution) (Reference material 11)

Sub-acute toxicity:

When introduced into the drinking water of F-344 rats, weight loss was observed when a 0.25% solution was given for 2 weeks, and when a 0.2% solution was given for 13 weeks.

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Hazardous to the aquatic environment short-term (acute)

Category 1 (Very toxic to aquatic life)

Hazardous to the aquatic environment long-term (chronic)

Category 1 (Very toxic to aquatic life with long lasting effects)

Persistence and degradability

Not known

Bioaccumulative potential

Not known

Mobility in soil

Not known

Hazardous to the ozone layer

Not known

Degradability

Gradually decompose in the water.

Reference values

Ichthyotoxicity: Toxic to aquatic life

12% of sodium hypochlorite

American minnow TL_m(96 hours) 59mg/LSmall shrimp TL_m(96 hours) 52mg/L**13. DISPOSAL CONSIDERATIONS****Information on safe handling for disposal and methods of disposal, including any contaminated packaging**

See section 7, Handling and storage.

International regulations

Disposal should be done in accordance with local, state, and national laws.

Waste residues

Dispose with a large quantity of water.

Used container

Wash off remaining residues with water. Disposal should be done in accordance with local, state, and national laws.

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See section 7, Handling and storage.

UN regulations**UN number:** 1791**Proper Shipping Name:**

HYPOCHLORITE SOLUTION

UN classification: Class 8**Packing group:** III

Not applicable as flammable liquid.

Avoid long-distance transportation since the product decomposes easily.

Avoid transportation under direct sunlight since the product decomposes quicker as temperature rises.

Contact with acid will produce toxic chlorine gas and thus, the product should not be transported together with acids.

Stack the containers such that the cap (gas-venting cap) is on top.

Confirm that there is no leakage, spillage or runoff. Take suitable measures to stabilize the containers and prevent them from falling, tumbling down or otherwise being damaged.

Ensure that all relevant laws and regulations are followed.

15. REGULATORY INFORMATION**International regulations**

It is the responsibility of the user to know and comply with all relevant rules, regulations and laws in the local, state, national and international level relating to the product being used.

16. OTHER INFORMATION

This SDS is compliance with JIS Z 7253:2019.

Reference material

- 1) Chemical Disaster Prevention Guidelines Vol.7, edited by the Chemical Society of Japan, Maruzen (1980).
- 2) Safety & Health Handbook 1992, edited by the Japan Soda Industry Association
- 3) Hazardous Substance Data Book, edited by the Tokyo United Association for Disaster Prevention, Maruzen (1988).



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- 4) Manual for the Transport, Facilities and Handling of Hypochlorous Acid Soda, edited by the Japan Soda Industry Association (1990).
5) Yoshikawa et al., Health Examination Report, 98, 62, (1980).
6) Hazardous Substance Handbook, edited by Gunter Hummel, translated by Rokuro Nii, Springer-Verlag Tokyo Co., Ltd. (1991).
7) Sodium Hypochlorite MSDS, Japan Food Additives Association
8) Japan Food Detergent Sanitation Association
9) National Institute of Technology and Evaluation GHS Classification result
10) Junko Monma et al.,: Journal of the Food Hygienics Society of Japan, Vol.27, p.553-560 (1986)
11) Hazardous Substance Data Book, edited by the Tokyo United Association for Disaster Prevention, Maruzen (1993).
GHS Mixture Classification and Labels Creation System (NITE-Gmiccs)

Disclaimer

Any of the above information may be changed without prior notice.

This document is complete and thorough to the best of our knowledge.

Note that information is provided in order to use the product safely, not to guarantee the safety of the product.

Precautions are intended for normal handling, but in the case of special handling, please implement it after taking new safety measures suitable for the application and usage.

As with all chemicals, at the present time there are some unknown facts about the chemicals contained in this product and thus, the product should be handled with care. It is the responsibility of each individual user to set the conditions in which the product can be safely used.