

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|-------------------------------|---|--|
| Product name | : | XY-12 |
| Other means of identification | : | Not applicable |
| Recommended use | : | Sanitizer |
| Restrictions on use | : | Reserved for industrial and professional use. |
| Product dilution information | : | 0.00024 % - 0.84 % |
| Company | : | Ecolab Inc. 1 Ecolab Place St. Paul, Minnesota USA 55102 1-800-352-5326 |
| Emergency health information | : | 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US) |
| Issuing date | : | 08/05/2022 |

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification****Product AS SOLD**

| | | |
|-----------------------|---|-------------|
| Acute toxicity (Oral) | : | Category 4 |
| Skin corrosion | : | Category 1A |
| Serious eye damage | : | Category 1 |

Product AT USE DILUTION

| | | |
|-------------------------|---|-------------|
| Acute toxicity (Oral) | : | Category 4 |
| Acute toxicity (Dermal) | : | Category 4 |
| Eye irritation | : | Category 2B |

GHS label elements**Product AS SOLD**

Hazard pictograms



| | | |
|--------------------------|---|---|
| Signal Word | : | Danger |
| Hazard Statements | : | Harmful if swallowed. Causes severe skin burns and eye damage. |
| Precautionary Statements | : | Prevention: Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. |

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Continue rinsing. Immediately call a POISON CENTER/ doctor. Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION

Hazard pictograms



Signal Word

: Warning

Hazard Statements

: Harmful if swallowed or in contact with skin.
Causes eye irritation.

Precautionary Statements

: **Prevention:**
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.
Response:
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. Wash contaminated clothing before reuse.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Product AS SOLD

Other hazards

: Mixing this product with acid or ammonia releases chlorine gas.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Chemical name

sodium hypochlorite
Sodium hydroxide

CAS-No.

7681-52-9
1310-73-2

Concentration (%)

8.4
0.1 - 1

Product AT USE DILUTION

Chemical name

sodium hypochlorite

CAS-No.

7681-52-9

Concentration (%)

0.071

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed

: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention

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| | |
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| | immediately. |
| If inhaled | : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur. |
| Protection of first-aiders | : If potential for exposure exists refer to Section 8 for specific personal protective equipment. |
| Notes to physician | : Treat symptomatically. |
| Most important symptoms and effects, both acute and delayed | : See Section 11 for more detailed information on health effects and symptoms. |

Product AT USE DILUTION

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|-------------------------|--|
| In case of eye contact | : Rinse with plenty of water. |
| In case of skin contact | : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops and persists. |
| If swallowed | : Rinse mouth. Get medical attention if symptoms occur. |
| If inhaled | : Get medical attention if symptoms occur. |

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

| | |
|--|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : None known. |
| Specific hazards during fire fighting | : Not flammable or combustible. |
| Hazardous combustion products | : Decomposition products may include the following materials: Carbon oxides |
| Special protective equipment for fire-fighters | : Use personal protective equipment. |
| Specific extinguishing methods | : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

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| Personal precautions, protective equipment and emergency procedures | : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. |
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Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

Conditions for safe storage : Do not store near acids. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : -15 °C to 40 °C

Product AT USE DILUTION

Advice on safe handling : Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---------------------|-----------|------------------|---------------------------|-----------|
| sodium hypochlorite | 7681-52-9 | STEL | 2 mg/m3 | US WEEL |
| sodium hydroxide | 1310-73-2 | C | 2 mg/m3 | ACGIH |
| | | C | 2 mg/m3 | NIOSH REL |
| | | TWA | 2 mg/m3 | OSHA Z-1 |
| | | C | 2 mg/m3 | OSHA P0 |
| | | C | 2 mg/m3 | |

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| | | | | |
|----------|-----------|------|-----------------------------------|-----------|
| chlorine | 7782-50-5 | TWA | 0.1 ppm | ACGIH |
| | | STEL | 0.4 ppm | ACGIH |
| | | C | 0.5 ppm 1.45 mg/m ³ | NIOSH REL |
| | | C | 1 ppm 3 mg/m ³ | OSHA Z-1 |
| | | TWA | 0.5 ppm 1.5 mg/m ³ | OSHA P0 |
| | | STEL | 1 ppm 3 mg/m ³ | OSHA P0 |
| | | PEL | 0.5 ppm 1.5 mg/m ³ | |
| | | STEL | 1 ppm 3 mg/m ³ | |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Wear eye protection and/or face protection.

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AS SOLD

Appearance : liquid

Product AT USE DILUTION

liquid

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| | | | |
|---|---|--|-----------------|
| Color | : | light yellow | colorless |
| Odor | : | Chlorine | slight chlorine |
| pH | : | 12.5, (100 %) | 6.0 - 9.5 |
| Flash point | : | Not applicable | |
| Odor Threshold | : | No data available | |
| Melting point/freezing point | : | No data available | |
| Initial boiling point and boiling range | : | No data available | |
| Evaporation rate | : | No data available | |
| Flammability (solid, gas) | : | Not applicable | |
| Upper explosion limit | : | No data available | |
| Lower explosion limit | : | No data available | |
| Vapor pressure | : | No data available | |
| Relative vapor density | : | No data available | |
| Relative density | : | 1.154 | |
| Water solubility | : | No data available | |
| Solubility in other solvents | : | No data available | |
| Partition coefficient: n-octanol/water | : | No data available | |
| Autoignition temperature | : | No data available | |
| Thermal decomposition | : | No data available | |
| Viscosity, kinematic | : | No data available | |
| Explosive properties | : | No data available | |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. | |
| Molecular weight | : | No data available | |
| VOC | : | No data available | |

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

| | | |
|------------------------------------|---|--|
| Reactivity | : | No dangerous reaction known under conditions of normal use. |
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | Mixing this product with acid or ammonia releases chlorine gas. |
| Conditions to avoid | : | None known. |
| Incompatible materials | : | Acids Metals |
| Hazardous decomposition products | : | In case of fire hazardous decomposition products may be produced such as: Carbon oxides |

SECTION 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.
Skin : Causes severe skin burns.
Ingestion : Harmful if swallowed. Causes digestive tract burns.
Inhalation : May cause nose, throat, and lung irritation.
Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes : Causes eye irritation.
Skin : Harmful in contact with skin.
Ingestion : Harmful if swallowed.
Inhalation : Health injuries are not known or expected under normal use.
Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact : Redness, Pain, Corrosion
Skin contact : Redness, Pain, Corrosion
Ingestion : Corrosion, Abdominal pain
Inhalation : Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact : Redness, Irritation
Skin contact : No information available.
Ingestion : No information available.
Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD

Product
Acute inhalation toxicity : No data available
Skin corrosion/irritation : No data available
Respiratory or skin sensitization : No data available
Carcinogenicity : No data available

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| | |
|------------------------|---------------------|
| Reproductive effects | : No data available |
| Germ cell mutagenicity | : No data available |
| Teratogenicity | : No data available |
| STOT-single exposure | : No data available |
| STOT-repeated exposure | : No data available |
| Aspiration toxicity | : No data available |

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product AS SOLD

Environmental Effects : Very toxic to aquatic life.

Product AT USE DILUTION

Environmental Effects : Harmful to aquatic life.

Product AS SOLD

Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Components

Toxicity to fish : sodium hypochlorite
96 h EC50: 0.14 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : sodium hypochlorite
48 h EC50: 0.071 mg/l

Sodium hydroxide
48 h EC50 Daphnia magna (Water flea): 40 mg/l

Persistence and degradability

Not applicable - Biocide

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods : Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance

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| | |
|---|---|
| Disposal considerations | with local regulations. Dispose of wastes in an approved waste disposal facility. |
| RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste | : D002 (Corrosive) |
| | |

Product AT USE DILUTION

| | |
|-------------------------|--|
| Disposal methods | : Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. |
| Disposal considerations | : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations. |

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

| | |
|---------------------------|--|
| UN number | : 1791 |
| Description of the goods | : Hypochlorite solutions (sodium hypochlorite) |
| Class | : 8 |
| Packing group | : III |
| Environmentally hazardous | : no |

Sea transport (IMDG/IMO)

| | |
|----------------------|---|
| UN number | : 1791 |
| Proper shipping name | : HYPOCHLORITE SOLUTION (sodium hypochlorite) |
| Class | : 8 |
| Packing group | : III |
| Marine pollutant | : yes |

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number : 1677-52

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|---------------------|-----------|--------------------|-----------------------------|
| sodium hypochlorite | 7681-52-9 | 100 | 1000 |

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

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.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation does not apply to this product.

The ingredients of this product are reported in the following inventories:

United States TSCA Inventory :

All substances listed as active on the TSCA inventory

Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS) :

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :

not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI) :

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC) :

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) :

On the inventory, or in compliance with the inventory

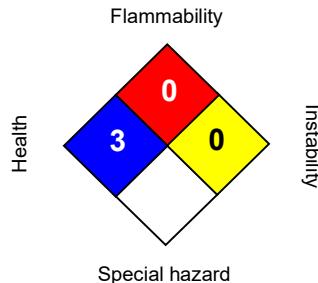
SECTION 16. OTHER INFORMATION

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Product AS SOLD

NFPA:



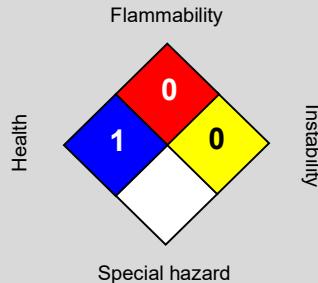
HMIS III:

| | |
|-----------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION

NFPA:



HMIS III:

| | |
|-----------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 08/05/2022
Version : 1.0
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.