

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : CHEM-STAR PERFORM 100

Other means of identification : Not applicable

Recommended use : Cleaning product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.26 %

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 : 01/28/2020

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

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**Product AT USE DILUTION**

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**GHS label elements**
**Product AS SOLD**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

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

# SAFETY DATA SHEET

## CHEM-STAR PERFORM 100

**Storage:**

Store locked up.

**Disposal:**

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

**Product AT USE DILUTION**

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: Causes severe skin burns and eye damage.

Precautionary Statements

: **Prevention:**

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

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**Storage:**

Store locked up.

**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**

Pure substance/mixture

: Mixture

**Chemical name**

Sodium hydroxide  
sodium hypochlorite

**CAS-No.**

1310-73-2  
7681-52-9

**Concentration (%)**

10 - 30  
1 - 5

**Product AT USE DILUTION**

No hazardous ingredients

### 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. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

## SAFETY DATA SHEET

### CHEM-STAR PERFORM 100

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

|                         |  |
|-------------------------|--|
| 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. Use a mild soap if available. 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 immediately.  |
| If inhaled              | : Remove to fresh air. Treat symptomatically. 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:<br>Carbon oxides   |
| Special protective equipment for fire-fighters | : Use personal protective equipment.   |
| Specific extinguishing methods                 | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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

## SAFETY DATA SHEET

### CHEM-STAR PERFORM 100

#### Product AS SOLD

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.

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 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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### 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 : -10 °C to 40 °C

#### Product AT USE DILUTION

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. 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

## SAFETY DATA SHEET

### CHEM-STAR PERFORM 100

#### Product AS SOLD

##### Ingredients with workplace control parameters

| Components          | CAS-No.   | Form of exposure | Permissible concentration | Basis     |
|---------------------|-----------|------------------|---------------------------|-----------|
| sodium hydroxide    | 1310-73-2 | Ceiling          | 2 mg/m3                   | ACGIH     |
|                     |           | Ceiling          | 2 mg/m3                   | NIOSH REL |
|                     |           | TWA              | 2 mg/m3                   | OSHA Z1   |
| sodium hypochlorite | 7681-52-9 | STEL             | 2 mg/m3                   | AIHA WEEL |

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

#### Personal protective equipment

Eye protection : Wear eye protection/ 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 : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Wear eye protection/ 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.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AS SOLD

Product AT USE DILUTION

## SAFETY DATA SHEET

### CHEM-STAR PERFORM 100

|   |                     |             |
|---|---------------------|-------------|
| Appearance                              | : liquid            | liquid      |
| Color                                   | : light yellow      | colorless   |
| Odor                                    | : Chlorine          | slight      |
| pH                                      | : 13.2, (100 %)     | 11.8 - 12.4 |
| 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                        | : 1.18              |             |
| 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                    | : No data available |             |
| 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  |
| Hazardous decomposition products   | : In case of fire hazardous decomposition products may be produced such as:<br>Carbon oxides |

### SECTION 11. TOXICOLOGICAL INFORMATION

## SAFETY DATA SHEET

### CHEM-STAR PERFORM 100

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 : 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 serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

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, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

#### Toxicity

##### Product AS SOLD

###### Product

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Skin corrosion/irritation : No data available

## SAFETY DATA SHEET

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Serious eye damage/eye irritation : No data available

Respiratory or skin sensitization : No data available

Carcinogenicity : No data available

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

#### Components

Acute oral toxicity : sodium hypochlorite  
LD50 Rat: 5,230 mg/kg

#### Components

Acute dermal toxicity : sodium hypochlorite  
LD50 Rabbit: > 10,000 mg/kg

### SECTION 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

##### Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

##### 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 hydroxide  
48 h EC50: 40 mg/l

sodium hypochlorite  
48 h EC50: 0.071 mg/l

#### Persistence and degradability

#### Product AS SOLD

Biodegradable

#### Product AT USE DILUTION

Not applicable - inorganic

#### Bioaccumulative potential



## SAFETY DATA SHEET

### CHEM-STAR PERFORM 100

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 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 re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
- RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

#### Product AT USE DILUTION

- Disposal methods : 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 re-use 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 : 3266
- Description of the goods : Corrosive liquid, basic, inorganic, n.o.s.  
(sodium hydroxide, sodium hypochlorite)
- Class : 8
- Packing group : II
- Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

- UN number : 3266
- Description of the goods : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
(sodium hydroxide, sodium hypochlorite)

## SAFETY DATA SHEET

### CHEM-STAR PERFORM 100

Class : 8  
Packing group : II  
Marine pollutant : yes

#### SECTION 15. REGULATORY INFORMATION

##### Product AS SOLD

##### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

| Components          | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|---------------------|-----------|--------------------|-----------------------------|
| sodium hypochlorite | 7681-52-9 | 100                | 3333                        |

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

**SARA 311/312 Hazards** : Serious eye damage or eye irritation  
Skin corrosion or 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:

**Switzerland. New notified substances and declared preparations :**  
not determined

**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 Inventory of Chemical Substances (AICS) :**  
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 :**  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**

# SAFETY DATA SHEET

## CHEM-STAR PERFORM 100

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

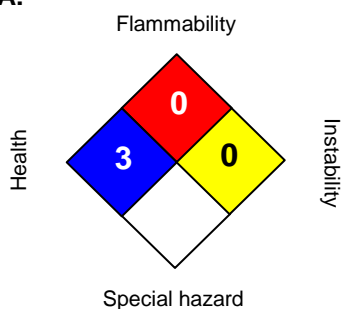
**Taiwan Chemical Substance Inventory (TCSI) :**

On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

### Product AS SOLD

#### NFPA:



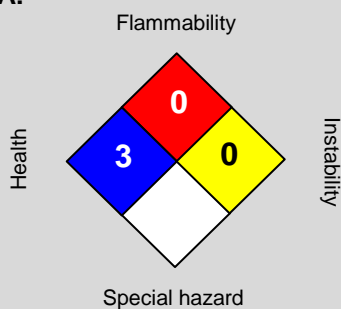
#### HMIS III:

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

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

Issuing date : 01/28/2020  
Version : 1.3  
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.