

71696-2.5L

Version 2.1 Issuing date 07/20/2016

11/12/2018

Revision Date 08/12/2019

Print Date 08/04/2021

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product information** 

Trade name : Sodium hypochlorite solution

Number : 000000020198

Recommended use of the chemical and restrictions on

use

Laboratory chemicals

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

GmbH

Wunstorfer Straße 40 Seelze, 30926

For further information,

please contact:

1-800-368-0050 +1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or +1-703-

527-3887

In Japan: +(81)-345209637 (24 hours/day, 7 days/week)

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the : Corrosive to metals, Category 1 substance or mixture : Skin corrosion, Category 1B

Serious eye damage, Category 1

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 3

GHS Label elements, including precautionary statements

Symbol(s) :





Signal word : Danger



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Hazard statements : May be corrosive to metals.

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention**:

Keep only in original container. Wash skin thoroughly after handling. Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

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. Absorb spillage to prevent material damage.

Collect spillage.

Storage:

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : NaOCl

Chemical nature : Mixture

 Chemical name
 CAS-No.
 Concentration

 Water
 7732-18-5
 >=70.00 - <90.00 %</td>

Water

Sodium hypochlorite 7681-52-9 >=10.00 - <20.00 %

Sodium hypochlorite



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Note: none

#### 4. FIRST AID MEASURES

General advice : First aider needs to protect himself.

Take off all contaminated clothing immediately.

Inhalation : Remove to fresh air.

If breathing is difficult, give oxygen.

Use oxygen as required, provided a qualified operator is

present.

Call a physician immediately.

Skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before re-use.

Call a physician immediately.

Eye contact : Protect unharmed eye.

Irrigate eyes for at least 15 minutes with copious quantities of water, keeping eyelids apart and away from eyeballs during

irrigation.

Call a physician immediately.

Ingestion : Rinse mouth with water.

Do NOT induce vomiting. Call a physician immediately.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry powder

Specific hazards during

firefighting

: Fire may cause evolution of:

Chlorine compounds

Special protective equipment

for firefighters

: In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus and protective suit.

No unprotected exposed skin areas.



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Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

The product itself does not burn.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

emergency procedures

: Ensure adequate ventilation.

Keep people away from and upwind of spill/leak.

Use personal protective equipment.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

Methods and materials for

containment and cleaning up

: Soak up with inert absorbent material.

Sweep up and shovel into suitable containers for disposal.

### 7. HANDLING AND STORAGE

### Handling

Precautions for safe handling : Wear personal protective equipment.

Use only with adequate ventilation.

Do not breathe vapours or spray mist.

Do not get in eyes, on skin, or on clothing.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

#### Storage

Conditions for safe storage,

including any incompatibilities

Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place.
Protect against light.

Advice on common storage : Do not store together with:

Acids

Storage temperature : 15 - 25 °C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



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Contains no substances with occupational exposure limit values.

## Appropriate engineering controls

Use with local exhaust ventilation.

### Individual protection measures, such as personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection : Impervious gloves

Gloves must be inspected prior to use.

Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Separate rooms are required for washing, showering and

changing clothes.

Take off all contaminated clothing immediately.

Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

When using do not eat or drink.

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : clear

Odour : no data available

pH : Note: alkaline

Melting point/range : -30 - -20 °C



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Boiling point/boiling range : 111 °C

Flash point : Note: Not applicable

Evaporation rate : Note: no data available

Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Vapour pressure : 23.3 hPa

at 20 °C(68 °F)

Vapour density : Note: no data available

: 1.206 g/cm3 at 25 °C Density

Water solubility : Note: soluble

octanol/water

Partition coefficient: n- : Note: no data available

Ignition temperature : Note: Not applicable

Decomposition temperature : Note: No decomposition if used as directed.

Viscosity, dynamic : Note: no data available

: Note: no data available Viscosity, kinematic

Molecular weight : 74.44 g/mol

Corrosivity : Note: Corrosive to metals



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#### 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

Conditions to avoid

reactions

: Hazardous polymerisation does not occur.

: Protect from heat/overheating. Exposure to light.

Incompatible materials to

avoid

: Acids

Hazardous decomposition

products

: Chlorine compounds

#### 11. TOXICOLOGICAL INFORMATION

Skin irritation : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Eye irritation : Note: Classification based on Annex VI of regulation

1272/2008/EC.

Sensitisation : Buehler Test

Species: Guinea pig

Classification: non-sensitizing Method: OECD Test Guideline 406

### 12. ECOLOGICAL INFORMATION

**Toxicity** 

Toxicity to fish : flow-through test

LC50: 0.032 mg/l Exposure time: 96 h

Species: Oncorhynchus kisutch (coho salmon) Test substance: REACH dossier "read-across"

Note: anhydrous substance



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Toxicity to daphnia and other : flow-through test

aquatic invertebrates

EC50: 0,035 mg actives Cl/l

Exposure time: 48 h

Species: Ceriodaphnia dubia (water flea) Method: OECD Test Guideline 202

: flow-through test

EC50: 0,141 mg actives Cl/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

: Growth rate Toxicity to algae

EC50: < 0,05 mg actives Cl/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

: static test

EC50: < 0,03 mg actives CI/I

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

### Persistence and degradability

Biodegradability : Note: The methods for determining biodegradability are not

applicable to inorganic substances.

### **Ecotoxicology Assessment**

Results of PBT assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.



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#### 14. TRANSPORT INFORMATION

**ADR** 

UN/ID No. : UN 1791

Description of the goods : HYPOCHLORITE SOLUTION

Class : 8
Packing group : II
Classification Code : C9
Hazard Identification Number : 80
Labels : 8

IATA

UN/ID No. : UN 1791

Description of the goods : Hypochlorite solution

Class : 8
Packing group : II
Labels : 8
Packing instruction (cargo : 855

aircraft)

Packing instruction : 851

(passenger aircraft)

Packing instruction : Y840

(passenger aircraft)

**IMDG** 

UN/ID No. : UN 1791

Description of the goods : HYPOCHLORITE SOLUTION (SODIUM HYPOCHLORITE)

Class : 8
Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B

Marine pollutant : yes

Other information : Incompatible with acids.

#### 15. REGULATORY INFORMATION

National regulatory information

Vessel Safety Law : Corrosive substances (Article 2 and 3 of rules on shipping and

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JP VSL

storage of dangerous goods and its Attached Table 1)

Aviation Law

JP AVL

: Corrosive substances (Article 194 of The Enforcement Rules of

Aviation Law and its Attached Table 1)

Fire Service Law : Not relevant

Poisonous and Deleterious

Substances Control Law

: Not relevant

#### Other international regulations

**Notification status** 

US. Toxic Substances

Control Act

: On TSCA Inventory

(Notification and Assessment) Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory

Canada. Canadian **Environmental Protection Act** 

(CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List

: On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control

(IECSC)

: On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances

: On the inventory, or in compliance with the inventory

New Zealand. Inventory of

Chemicals (NZIoC), as published by ERMA New : On the inventory, or in compliance with the inventory

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Zealand

#### **16. OTHER INFORMATION**

HMIS III	NFPA
: 3	3
: 0	0
: 0	
:	0
	: 3 : 0 : 0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

#### **Further information**

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group