

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : Hypochlorite Solution
Product code : 04-4012, 04-4012_R, 04-4019

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals
Restrictions on use : No information available

1.4. Supplier's details

Supplier

Sysmex Partec GmbH
Arndtstraße 11 a-b
02826 Görlitz
T +49 3581 8746-0
F +49 3581 8746-70
info@sysmex-partec.com
sdb_info@umco.de

New Zealand Importer

Sysmex New Zealand Limited
Level 3, 103 Carlton Gore Rd,
New Market,
Auckland 1023,
New Zealand
[Tel: +64-9-630-3554](tel:+64-9-630-3554) / [0800797639](tel:0800797639)
[Email: regulatory@sysmex.co.nz](mailto:regulatory@sysmex.co.nz)

1.5. Emergency phone number

Emergency number : For Sysmex Supply Chain support or Product Related Enquiries: +64 9 6303554 / 0800797639 (Mon to Fri – 8.30 am to 5.00 pm)
For any spillage or clean up issues: CHEMCALL 0800 243 622 (24 hours – 365 days)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the GHS

Skin corrosion/irritation, Category 1B H314
Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

2.2. GHS Label elements, including precautionary statements

Labelling according to the GHS

Hazard pictograms



Signal word

: Danger

Hazard statements

: H314 - Causes severe skin burns and eye damage
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Hypochlorite Solution

Safety Data Sheet

according to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor.
P321 - Specific treatment (see on this label).
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Toxic to aquatic life.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%
Sodium hypochlorite	CAS-No.: 7681-52-9	< 1

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : In case of doubt or persistent symptoms, consult always a physician. Take off immediately all contaminated clothing and wash it before reuse.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. extinguishing powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media : High volume water jet.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Chlorine.

Hypochlorite Solution

Safety Data Sheet

according to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

5.3. Special protective actions for fire-fighters

- | | |
|--------------------------------|---|
| Firefighting instructions | : Move away from the container and cool with water from a protected position. Do not allow run-off from fire fighting to enter drains or water courses. Fight fire from safe distance and protected location. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- | | |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk on the spilled product. Remove all sources of ignition. Stop leak if safe to do so. |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or rivers. Prevent soil and water pollution. Advise local authorities if considered necessary.

6.3. Methods and materials for containment and cleaning up

- | | |
|-------------------------|--|
| Methods for cleaning up | : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. |
| Other information | : Dispose of materials or solid residues at an authorized site. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. |

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|--|
| Precautions for safe handling | : Handle in accordance with good industrial hygiene and safety practice. Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|-----------------------|--|
| Storage conditions | : Keep container tightly closed in a cool, well-ventilated place. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store always product in container of same material as original container. |
| Incompatible products | : Refer to Section 10 on Incompatible Materials. |
| Storage temperature | : 18 – 30 °C |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Hypochlorite Solution

Safety Data Sheet

according to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. In case of inadequate ventilation wear respiratory protection.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	: Chemically resistant protective gloves
Eye protection	: Safety glasses with side shields
Skin and body protection	: Use chemically protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Colour	: colourless to slightly yellow.
Odour	: chlorine.
Odour threshold	: Not available
pH	: 11 – 12 (25 °C)
pH solution	: Not available
Melting point	: Not applicable.
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Flammability (solid, gas)	: Not applicable.
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Vapour pressure	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Solubility	: Water: (20 °C)
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: Not available
Explosive properties	: Not explosive
Oxidising properties	: Not oxidising
Particle size	: Not applicable.
Particle size distribution	: Not applicable.
Particle shape	: Not applicable.
Particle aspect ratio	: Not applicable.
Particle specific surface area	: Not applicable.

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Hypochlorite Solution

Safety Data Sheet

according to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: No data available
Acute toxicity (dermal)	: No data available
Acute toxicity (inhalation)	: No data available
Skin corrosion/irritation	: Causes severe skin burns. pH: 11 – 12 (25 °C)
Serious eye damage/irritation	: Causes serious eye damage. pH: 11 – 12 (25 °C)
Respiratory or skin sensitisation	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration hazard	: No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

Sodium hypochlorite (7681-52-9)

LC50 - Fish [1]	0.06 – 0.11 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	4.5 – 7.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	0.033 – 0.044 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

Hypochlorite Solution

Safety Data Sheet

according to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available





SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Do not re-use empty containers without proper cleaning or reconditioning.
Additional information : Discharging into rivers and drains is forbidden.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA
14.1. UN number		
1791	1791	1791
14.2. UN Proper Shipping Name		
HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	Hypochlorite solution
14.3. Transport hazard class(es)		
8	8	8
	 	
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : Yes	Dangerous for the environment : No

14.6. Special precautions for user

UN RTDG

Limited quantities (UN RTDG) : 1L
Excepted quantities (UN RTDG) : E2
Packing instruction (UN RTDG) : P001, IBC02
Special packing provisions (UN RTDG) : PP10, B5
Portable tank and bulk container special instructions (UN RTDG) : T7
Portable tank and bulk container special provisions (UN RTDG) : TP2, TP24

IMDG

Special provisions (IMDG) : 274, 900

Hypochlorite Solution

Safety Data Sheet

according to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP10
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B5
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2, TP24
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Liquid with chlorine odour. In contact with acids, evolves very irritating and corrosive gases. Mildly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.

IATA

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

14.7. Transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

New Zealand

The product might be approved under a group standard, click on the link below for more information:

<https://www.epa.govt.nz/industry-areas/hazardous-substances/group-standards/>

Sodium hypochlorite (7681-52-9)

Listed on NZIoC (New Zealand Inventory of Chemicals)
Approval number: HSR003698

National regulations

Sodium hypochlorite (7681-52-9)

Listed on the the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA)
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

SECTION 16: Other information

Issue date	: 03/11/2021
Revision date	: 03/11/2021

Hypochlorite Solution

Safety Data Sheet

according to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

Abbreviations and acronyms

: CAS-No. - Chemical Abstract Service number
BCF - Bioconcentration factor
EC50 - Median effective concentration
EC-No. - European Community number
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose
SDS - Safety Data Sheet
N.O.S. - Not Otherwise Specified

Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.