

H425044 Sodium hypochlorite, sol. 1,00LPF

000000020198

Version 1.0

Revision Date 09/22/2016

Print Date 12/20/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sodium hypochlorite solution

Number : 000000020198

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
115 Tabor Road
Morris Plains, NJ 07950-2546

For more information call : 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**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Classification of the substance or mixture

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

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.

Precautionary statements : **Prevention:**
Keep only in original container.
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): 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.

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.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : ClNaO

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	>=70.00 - <90.00 %

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Sodium hypochlorite 7681-52-9 ≥ 10.00 - < 20.00 %

SECTION 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.

SECTION 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.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : 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 for cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE**Handling**

- 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

- Requirements for storage areas and containers : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage : Do not store together with:
Acids

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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.

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

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Impervious gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Impervious clothing

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

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.**Exposure Guidelines**

Components	CAS-No.	Value	Control parameters	Update	Basis
Sodium hypochlorite	7681-52-9	STEL : Short term exposure limit	2 mg/m3	2007	WEEL:US. OARS. WEELs Workplace Environmental Exposure Level Guide

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

pH : Note: alkaline

Melting point/range : -30 - -20 °C

Boiling point/boiling range : 111 °C

Flash point : Note: Not applicable

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Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Vapor pressure : 23.3 hPa
at 20 °C(68 °F)

Density : 1.206 g/cm3 at 25 °C

Ignition temperature : Note: Not applicable

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

Molecular weight : 74.44 g/mol

Corrosivity : Note: Corrosive to metals

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Protect from heat/overheating.

Incompatible materials to avoid : Acids

Hazardous decomposition products : Chlorine compounds

SECTION 11. TOXICOLOGICAL INFORMATION

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

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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

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

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

Toxicity to daphnia and other aquatic invertebrates : flow-through test
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

Toxicity to algae : Growth rate
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 Cl/l

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Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)
Method: OECD Test Guideline 201

Elimination information (persistence and degradability)

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Further information on ecology**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).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1791
Proper shipping name : HYPOCHLORITE SOLUTION
Class : 8
Packing group : III
Hazard Labels : 8

IATA UN/ID No. : UN 1791
Description of the goods : HYPOCHLORITE SOLUTION
Class : 8
Packaging group : III
Hazard Labels : 8
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852
Packing instruction (passenger aircraft) : Y841

IMDG UN/ID No. : UN 1791
Description of the goods : HYPOCHLORITE SOLUTION

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Class	: 8
Packaging group	: III
Hazard Labels	: 8
EmS Number	: F-A, S-B
Marine pollutant	: yes

Other information : Incompatible with acids.

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : 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. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : 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 Zealand : On the inventory, or in compliance with the inventory

National regulatory information

US. EPA CERCLA : The following component(s) of this product is/are subject to

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Hazardous Substances (40 CFR 302) : release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

Reportable quantity: 100 lbs
: Sodium hypochlorite 7681-52-9

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : 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.

SARA 311/312 Hazards : Acute Health Hazard

CERCLA Reportable Quantity : 667 lbs

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Sodium hypochlorite 7681-52-9

New Jersey RTK : Sodium hypochlorite 7681-52-9

Pennsylvania RTK : Sodium hypochlorite 7681-52-9

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3	3
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	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

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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.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group