

# Univar USA Inc Safety Data Sheet

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**Emergency Assistance** 

For emergency assistance involving chemicals call Chemtrec - (800) 424-9300



## **SAFETY DATA SHEET**

#### 1. Identification

Product identifier: SODIUM HYPOCHLORITE 10-16%

Other means of identification

Liquichlor, Bleach **Synonyms** 

**CAS NUMBERS:** 7681-52-9

SDS number: 000100001054

Recommended use and restriction on use

**Recommended use:** Reserved for industrial and professional use.

Restrictions on use: Not known.

Emergency telephone number:For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

## 2. Hazard(s) identification

#### Hazard classification

**Physical hazards** 

Corrosive to metals Category 1

**Health hazards** 

Acute toxicity (Oral) Category 4

Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1 **Environmental hazards**Acute hazards Category 1

to the aquatic environment

#### **Label elements**

**Hazard symbol** 

Revision date: 08/29/2016





Signal word Danger

**Hazard statement** May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage. Very toxic to aquatic life.

#### **Precautionary statement**

**Prevention** Wash thoroughly after handling. Do not eat, drink or smoke when using

this product. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash

contaminated clothing before reuse.

Storage Store locked up.

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**Disposal** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification

None.

## 3. Composition/information on ingredients

#### **Substances**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Sodium hypochlorite		7681-52-9	10 - 16%
Sodium hydroxide		1310-73-2	0.3 - 5%
Water		7732-18-5	80 - 89.7%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion: Do NOT induce vomiting. Never give liquid to an unconscious person. Get

medical attention immediately.

Inhalation: Call a physician or poison control center immediately. If breathing stops,

provide artificial respiration. Move to fresh air. If breathing is difficult, give

oxygen.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes.

If in eyes, hold eyes open, flood with water for at least 15 minutes and see **Eye contact:** 

a doctor.

Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

## Indication of immediate medical attention and special treatment needed

Symptoms may be delayed. Treatment:

## 5. Fire-fighting measures

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General fire hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

Use: Foam. Carbon dioxide or dry powder.

media:

Unsuitable extinguishing

No data available.

media:

Specific hazards arising from the During fire, gases hazardous to health may be formed.

chemical:

Special protective equipment and precautions for firefighters

Special fire fighting No data available.

procedures:

Special protective equipment for Self-contained breathing apparatus and full protective clothing must be

fire-fighters: worn in case of fire.

6. Accidental release measures

Personal precautions, protective Do not touch damaged containers or spilled material unless wearing

appropriate protective clothing. Keep unauthorized personnel away. equipment and emergency

Methods and material for

procedures:

Absorb spillage with non-combustible, absorbent material.

containment and cleaning up:

**Notification Procedures:** Dike for later disposal. Prevent entry into waterways, sewer, basements or

confined areas. Stop the flow of material, if this is without risk.

Do not contaminate water sources or sewer. Avoid release to the **Environmental precautions:** 

environment.

7. Handling and storage

**Precautions for safe handling:** Do not taste or swallow. Wash hands thoroughly after handling. Do not get

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

Conditions for safe storage,

including any incompatibilities: Store locked up.

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## 8. Exposure controls/personal protection

## **Control parameters**

**Occupational exposure limits** 

Chemical identity	Туре	Exposure Limit values	Source	
Sodium hydroxide	Ceiling	2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)	
Sodium hydroxide - Particulate.	ST ESL	20 μg/m3	3 US. Texas. Effects Screening Levels (Texas Commission on Environmenta Quality) (02 2013)	
	AN ESL	2 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)	
Sodium hydroxide	Ceiling	2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)	
	Ceiling		US. ACGIH Threshold Limit Values (03 2013)	
	Ceil_Tim e	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
Ceiling		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	

Appropriate engineering

No data available.

controls

Individual protection measures, such as personal protective equipment

**General information:** Provide easy access to water supply and eye wash facilities. Use personal

protective equipment as required. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Eye/face protection:** Wear a full-face respirator, if needed. Wear safety glasses with side shields

(or goggles) and a face shield.

**Skin protection** 

**Hand protection:** Chemical resistant gloves

**Other:** Wear chemical-resistant gloves, footwear, and protective clothing

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appropriate for the risk of exposure. Contact health and safety

professional or manufacturer for specific information.

**Respiratory protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Do not eat, drink or smoke when using the product. Wash hands after

handling. Do not get in eyes. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after

handling the product.

## 9. Physical and chemical properties

Physical state: Liquid

Form:

Color:

Pale yellow-green
Odor:

Odor of chlorine

No data available.

No data available.

pH: 11.2 Melting point/freezing point:  $-20 \, ^{\circ}\text{C}$  Initial boiling point and boiling range:  $> 100 \, ^{\circ}\text{C}$ 

Flash Point:

Evaporation rate:

No data available.

No data available.

No data available.

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure:

No data available.

No data available.

No data available.

Relative density: 1.224

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

No data available.

Partition coefficient (n-octanol/water):

No data available.

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Auto-ignition temperature:

Decomposition temperature:

No data available.

No data available.

No data available.

## 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous**No data available.

reactions:

**Conditions to avoid:** Avoid heat or contamination.

Incompatible materials: Oxidizers, acids
Hazardous decomposition No data available.

products:

## 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:No data available.Inhalation:No data available.Skin contact:No data available.Eye contact:No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix (): 325 mg/kg

Dermal Product:

Not classified for acute toxicity based on available data.

Inhalation

**Product:** May be harmful if inhaled.

Repeated dose toxicity

**Product:** No data available.

Skin corrosion/irritation

**Product:** Causes severe skin burns.

Serious eye damage/eye irritation

**Product:** Causes serious eye damage.

Respiratory or skin sensitization

**Product:** No data available.

Carcinogenicity

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**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ cell mutagenicity

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific target organ toxicity - single exposure

Product: No data available.

Specific target organ toxicity - repeated exposure

Product: No data available.

Aspiration hazard

Product: No data available.

Other effects: No data available.

## 12. Ecological information

**Ecotoxicity:** 

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Specified substance(s):** 

Sodium hypochlorite LC 50 (Bluegill (Lepomis macrochirus), 96 h): 2.2 - 2.64 mg/l Mortality

Sodium hydroxide LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 125 mg/l Mortality

LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 125 mg/l Mortality LC 50 (Guppy (Poecilia reticulata), 24 h): 145 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 48 h): 125 mg/l Mortality LC 50 (Goldfish

(Carassius auratus), 24 h): 160 mg/l Mortality

Aquatic invertebrates

**Product:** No data available.

**Specified substance(s):** 

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Sodium hydroxide LC 50 (Cockle (Cerastoderma edule), 48 h): 330 - 1,000 mg/l Mortality EC 50

(Water flea (Ceriodaphnia dubia), 48 h): 34.59 - 47.13 mg/l Intoxication LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): 33 - 100 mg/l

Mortality

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

**Specified substance(s):** 

Sodium hypochlorite LC 50 (Green algae (Dunaliella primolecta)): 0.4 mg/l Mortality LC 50 (Red

algae (Porphyra yezoensis), 10 d): 2.3 mg/l Mortality

Persistence and degradability

Biodegradation

**Product:** No data available.

**BOD/COD** ratio

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration factor (BCF)** 

Product: No data available.
Partition coefficient n-octanol / water (log Kow)
Product: No data available.
Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Sodium hypochlorite No data available.
Sodium hydroxide No data available.
Water No data available.

Known or predicted distribution to environmental compartments

Water No data available.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**Contaminated packaging:** Since emptied containers retain product residue, follow label warnings

even after container is emptied.

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## 14. Transport information

**DOT** 

UN number: UN 1791

UN proper shipping name: Hypochlorite solutions

Transport hazard class(es)

Class: 8
Label(s): 8
Packing group: III

Marine Pollutant: Marine Pollutant

Special precautions for user: -

**IMDG** 

UN number: UN 1791

UN proper shipping name: HYPOCHLORITE SOLUTION

Transport hazard class(es)

 Class:
 8

 Label(s):
 8

 EmS No.:
 F-A, S-B

Packing group:

Marine Pollutant: Marine Pollutant

Special precautions for user: -

## 15. Regulatory information

#### US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):** 

Sodium hypochlorite Reportable quantity: 100 lbs.
Sodium hydroxide Reportable quantity: 1000 lbs.
Superfund amendments and reauthorization act of 1986 (SARA)

**Hazard categories** 

Not listed.

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## SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

## **SARA 304 Emergency release notification**

Chemical identity	RQ	
Sodium hypochlorite	100 lbs.	
Sodium hydroxide	1000 lbs.	

#### SARA 311/312 Hazardous chemical

Chemical identity	Threshold Planning Quantity
Sodium hypochlorite	500 lbs
Sodium hydroxide	500 lbs

## SARA 313 (TRI reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Sodium hypochlorite Reportable quantity: 100 lbs. Sodium hydroxide Reportable quantity: 1000 lbs.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US state regulations**

#### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

## US. New Jersey Worker and Community Right-to-Know Act

Sodium hypochlorite Listed
Sodium hydroxide Listed

US. Massachusetts RTK - Substance List
Sodium hypochlorite Listed
Sodium hydroxide Listed

#### **US. Pennsylvania RTK - Hazardous Substances**

Sodium hypochlorite Listed Sodium hydroxide Listed

**US. Rhode Island RTK** 

Sodium hypochlorite Listed Sodium hydroxide Listed

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Inventory Status: Australia AICS: Not in compliance with the inventory. Canada DSL Inventory List: Not in compliance with the inventory. **EU EINECS List:** Not in compliance with the inventory. Not in compliance with the inventory. **EU ELINCS List:** Japan (ENCS) List: Not in compliance with the inventory. **EU No Longer Polymers List:** Not in compliance with the inventory. Not in compliance with the inventory. China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory. Canada NDSL Inventory: Not in compliance with the inventory. **Philippines PICCS:** Not in compliance with the inventory. New Zealand Inventory of Chemicals: Not in compliance with the inventory. Japan ISHL Listing: Not in compliance with the inventory. Japan Pharmacopoeia Listing: Not in compliance with the inventory. **US TSCA Inventory:** On or in compliance with the inventory

## 16.Other information, including date of preparation or last revision

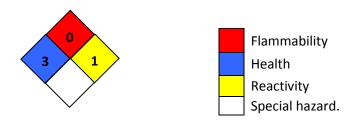
#### **HMIS Hazard ID**

Health		3
Flammability		0
Physical hazards		1
PERSONAL PROTECTION		В

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue date:** 08/29/2016 **Revision date:** No data available.

Version #: 1.6

**Further information:** No data available.

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## Univar USA Inc Safety Data Sheet

For Additional Information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

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