

Univar USA Inc Safety Data Sheet

SDS No:	
Version No:	003 2016-08-29
Order No:	

3075 Highland Pkwy, Ste 200, Downers Grove, IL 60515 (425) 889 3400

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

Synonyms Liquichlor, Bleach

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.

Version: 1.6

Revision date: 08/29/2016



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%

^{*} 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.

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

a doctor.

Most important symptoms/effects, acute and delayed Symptoms: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

Revision date: 08/29/2016



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

equipment and emergency

procedures:

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for

containment and cleaning up:

Absorb spillage with non-combustible, absorbent material.

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. **Environmental precautions:**

Do not contaminate water sources or sewer. Avoid release to the

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.

Revision date: 08/29/2016



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	US. Texas. Effects Screening Levels (Texas Commission on Environmental 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	2 mg/m3	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

Version: 1.6

Revision date: 08/29/2016



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.

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

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: No data available. Color: Pale yellow-green Odor: Odor of chlorine **Odor threshold:** No data available.

11.2 pH: -20 °C Melting point/freezing point: Initial boiling point and boiling range: > 100 °C

Flash Point: No data available. **Evaporation rate:** No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. No data available. Flammability limit - lower (%): Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available. Vapor pressure: No data available. Vapor density: No data available.

Relative density: 1.224

Solubility(ies)

Solubility in water: No data available. Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available.

UNIVAR USA INC. ISSUE DATE:2016-08-29

SDS NO:10001054 VERSION:003 2016-08-29

Annotation:

Version: 1.6

Revision date: 08/29/2016



Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity: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

SDS US - 000100001054

Version: 1.6

Revision date: 08/29/2016



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

No data available. **Product:**

Reproductive toxicity

Product: No data available. Specific target organ toxicity - single exposure No data available. **Product:** 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):

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

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):

Version: 1.6

Revision date: 08/29/2016



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. No data available. Mobility in soil:

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.

UNIVAR USA INC. ISSUE DATE:2016-08-29

SDS NO:10001054 VERSION:003 2016-08-29

Annotation:

Version: 1.6

Revision date: 08/29/2016



14. Transport information

DOT

UN 1791 UN number:

Hypochlorite solutions UN proper shipping name:

Transport hazard class(es)

Class: 8 Label(s): 8 Packing group: Ш

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.

Version: 1.6

Revision date: 08/29/2016



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

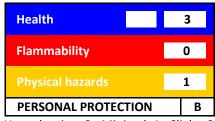
Revision date: 08/29/2016



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. **EU ELINCS List:** Not in compliance with the inventory. Japan (ENCS) List: Not in compliance with the inventory. EU No Longer Polymers List: Not in compliance with the inventory. China Inv. Existing Chemical Substances: Not in compliance with the inventory. 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

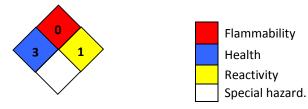
HMIS Hazard ID



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.

UNIVAR USA INC. ISSUE DATE:2016-08-29 Annotation:

SDS NO:10001054 VERSION:003 2016-08-29

Version: 1.6

Revision date: 08/29/2016



Univar USA Inc Safety Data Sheet

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

Notice

Univar USA Inc. ("Univar") expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process