

Univar USA Inc Safety Data Sheet

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Emergency Assistance

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



425-889-3400

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



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.



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 symptom	ns/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	



General fire hazards: Suitable (and unsuitable) extinguis	No unusual fire or explosion hazards noted. shing media
Suitable extinguishing media:	Use: Foam. Carbon dioxide or dry powder.
Unsuitable extinguishing media:	No data available.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
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	5
Personal precautions, protective	Do not touch damaged containers or spilled material unless wearing
equipment and emergency procedures:	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.



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 -	ST ESL	20 µg/m3	US. Texas. Effects Screening Levels
Particulate.			(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	2 mg/m3	US. NIOSH: Pocket Guide to Chemical
	е		Hazards (2010)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air
		Ċ.	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



Respiratory protection: Hygiene measures:	appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information. In case of inadequate ventilation use suitable respirator. 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 prop	erties
Physical state:	Liquid
Form:	No data available.
Color:	Pale yellow-green
Odor:	Odor of chlorine
Odor threshold:	No data available.
pH:	11.2
Melting point/freezing point:	-20 °C
Initial boiling point and boiling rai	ge: > 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.
Flammability limit - lower (%	: No data available.
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/w	ater): No data available.



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 reactions:	No data available.	
Conditions to avoid:	Avoid heat or contamination.	
Incompatible materials:	Oxidizers, acids	
Hazardous decomposition	No data available.	
products:		
11. Toxicological information		
Symptoms related to the physica	I, 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 effe	octs	
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 irritatio	on	
Product:	Causes serious eye damage.	
Respiratory or skin sensitization		
Product:	No data available.	
Carcinogenicity		
SDS_US - 000100001054		7/13



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):			



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-octane	bl / water (log Kow)
Product:	No data available.
Mobility in soil:	No data available.
Known or predicted distribut	tion to environmental compartments
Sodium hypochlorite	No data available.
Sodium hydroxide	No data available.
Water	No data available.
Known or predicted distribut	tion to environmental compartments
Water	No data available.

13. Disposal considerations

Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local
Contaminated packaging:	laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.



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:	III
Marine Pollutant:	Marine Pollutant
Special precautions for user:	-
15. Regulatory information	

US federal regulationsUS. 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.



SARA 302 Extremely hazard				
None present or nor	ne present in regulated quantities.			
SARA 304 Emergency releas	e 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 nor	ne present in regulated quantities.			
Clean Water Act Section 311 Ha	zardous 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 prese	nt in regulated quantities.			
US state regulations				
US. California Proposition 6	5			
No ingredient regula	ated 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 - Haza	ardous Substances			
Sodium hypochlorite	Listed			
Sodium hydroxide	Listed			
US. Rhode Island RTK				
Sodium hypochlorite	Listed			
Sodium hydroxide	Listed			



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
40 Other information including data of un	an anation, an loot novialan

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

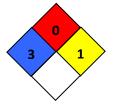
HMIS Hazard ID



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 informa	tion: No data available.



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

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