

# GENERAL PURPOSE BLEACH

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/19/2021

Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : **GENERAL PURPOSE BLEACH**  
Product code : P440

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Cleaning  
Use of the substance/mixture : Bleaching agent

#### 1.3. Details of the supplier of the safety data sheet

#### 1.4. Emergency telephone number

Emergency number : 1-800-535-5053  
InfoTrac

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin Corr. 1A H314

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage  
Precautionary statements (GHS-US) : P260 - Do not breathe mist, spray  
P264 - Wash hands, forearms and face thoroughly after handling  
P280 - Wear gloves and protective eyewear  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
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 physician  
P363 - Wash contaminated clothing before reuse  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

##### Note to Physician:

Consider oral administration of sodium thiosulfate solutions if sodium hypochlorite is ingested. Do not administer neutralizing agents, exothermic reaction may result and cause further damage.

#### 2.3. Other hazards

No additional information available

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### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
sodium hypochlorite, solution, conc active chlorine=6.0%	(CAS No) 7681-52-9	5.0 - 6.0	Corrosive 1B, STOT-SE 3, Acute Aquatic 1; H314, H335, H400
Sodium hydroxide	(CAS No) 1310-73-2	0.3 - 5	Corrosive 1B, STOT-SE 3, H314, H335
Water	(CAS No) 7732-18-5	Balance	Not considered hazardous according to GHS criteria

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
First-aid measures after skin contact	: In case of contact with liquid, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek immediate medical attention.
First-aid measures after eye contact	: Immediately flush eyes with plenty of flowing water for at least 15 minutes, while lifting upper and lower eyelids. Seek immediate medical attention.
First-aid measures after ingestion	: If swallowed DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: EXTINGUISHING MEDIA FOR SURROUNDING FIRES:
Unsuitable extinguishing media	: No unsuitable extinguishing media known.

### 5.2. Special hazards arising from the substance or mixture

<b>NFPA 704:</b> Health 2 FLAMMABILITY 0	: Reactivity 1 Other Hazards: Corrosive
Fire hazard	: Not considered to be a fire hazard. Releases oxygen when heated, causing increased severity of an existing fire.
Explosion hazard	: Not considered to be an explosion hazard.
Reactivity	: No data available.

### 5.3. Advice for firefighters

Firefighting instructions	: No specific fire-fighting instructions required.
FIRE Extinguishing Media:	: Water or water spray to cool fire exposed containers. Use any means to extinguish surrounding fire.
Special information:	: In event of fire, wear full protective clothing and NIOSH approved self contained breathing apparatus (SCBA), with full face shield, operated in positive pressure mode. Stay away from end of tanks. Cool tanks and drums with water spray until well after fire is out.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Adequately ventilate area of leak or spill. Wear appropriate personal protective equipment (PPE) as specified in Section 8. Isolate area to keep unprotected personnel from entering. Stop the leak if possible. Contain and recover liquid when possible. Absorb spilled liquid with an inert material, such as vermiculite, sand, or earth and place recovered material in an approved, compatible chemical waste container. Do not use combustible materials such as cardboard or saw dust as an absorbent. EPA regulations require reporting spills and releases to the soil, air, and water, in excess of the reportable quantity (103.4 gallons), to the National Response Center, telephone number 1-800-424-8802. Reporting to the State Emergency Response Commission (SERC) warning point and local authorities (911) is also required. Notify InfoTrac, for specific information, in the event of any transportation spills or leaks. 1-800-535-5053. See section 13 of this SDS for more information.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.  
Methods for cleaning up : Clean contaminated surfaces with an excess of water.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

General: : Store in cool, dry, ventilated storage area with good drainage. Protect from physical damage.  
Hygiene measures : Keep out of sunlight, away from direct heat, water and incompatible materials. Do not wash out container and use for other purposes. Observe all warnings and precautions stated on the container label. Wear protective equipment when handling, opening containers and using hypochlorite solutions.  
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothes.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container.  
Incompatible products : Strong acids.  
Maximum storage period : > 6 months  
Storage temperature : < 34 °C

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

SODIUM HYPOCHLORITE	
ACGIH TLV and TWA	0.5 ppm as Cl <sub>2</sub>
ACGIH STEL	1 ppm as Cl <sub>2</sub>
WEEL (AIHA)	2 mg/m <sup>3</sup> , 15 minute TWA as Cl <sub>2</sub>
OSHA PEL	1 ppm as Cl <sub>2</sub> (TWA)
OSHA STEL	3 ppm as Cl <sub>2</sub>
NIOSH Immediately Dangerous Level 9IDLH)	Unavailable

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sodium hypochlorite, solution, conc active chlorine=6.0% (7681-52-9)		
ACGIH TLV and TWA	0.5 ppm as Cl <sub>2</sub>	0.5 ppm as Cl <sub>2</sub>
ACGIH STEL	1 ppm as Cl <sub>2</sub>	1 ppm as Cl <sub>2</sub>
WEEL (AIHA)	2 mg/m <sup>3</sup> , 15 minute TWA as Cl <sub>2</sub>	22 mg/m <sup>3</sup> , 15 minute TWA as Cl <sub>2</sub>
OSHA PEL	0.5 ppm as Cl <sub>2</sub> (TWA)	1 ppm as Cl <sub>2</sub> (TWA)
OSHA STEL	0.8 ppm as Cl <sub>2</sub>	3 ppm as Cl <sub>2</sub>
NIOSH Immediately Dangerous Level 9IDLH)	Unavailable	Unavailable

### 8.2. Exposure controls

**Ventilation:** : A system of local and/or general exhaust is recommended to keep exposure below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the containment at its source, preventing dispersion into occupied areas.

Personal protective equipment (NIOH) Approved : If exposure limits are exceeded and engineering controls are not feasible, a full facel respirator, with an acid cartridge, may be worn up to 50 times the permissible exposure limit (PEL). For emergencies or instances where the exposure levels are not known, use full face, positive pressure, air supplied respirator. WARNING, air purifying respirators do not provide protection in oxygen deficient atmospheres.



**Skin Protection:** Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

**Eye Protection:** Use chemical safety goggles and / or a full face shield where splashing is possible. Maintain eye wash fountain and quick drench facilities (safety shower) in work areas.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Mixture contains one or more component(s) which have the following colour(s): Light green-yellow
Odour	: Bleach / Chlorine-like
Odour threshold	: No data available
pH	: 11 - 14
Evaporation Rate	: < 1 (butyl acetate = 1)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 180 degrees Fahrenheit decomposes slightly
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 17.5 @ 68F
Relative vapour density at 20 °C	: No data available
Specific gravity	: 1.075 – 1.080
Solubility	: Soluble in water. Water: Solubility in water of component(s) of the mixture : • sodium hypochlorite, solution, conc active chlorine=6.0%: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available

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Oxidising properties : No data available

Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Stability

Slowly decomposes on contact with air. Decomposition rate increases with concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite solutions become less toxic with age.

### 10.2. Hazardous Decomposition Products

When heated to decomposition, emits toxic chlorine fumes and will react with water or steam to produce heat and toxic, corrosive fumes. Thermal decomposition results in the emission of chlorine oxides.

### 10.3. Hazardous Polymerization

Will not occur.

### 10.4. Incompatibilities

Ammonia (chloramines gas may evolve), amines, ammonium salts, acids, methanol, cellulose, reducing agents, oxidizing metals, and bisulfates.

### 10.5. Incompatible materials

Acids. May be corrosive to metals.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>sodium hypochlorite, solution, conc active chlorine=6.0% (7681-52-9)</b>	
LD50 oral rat	>8200 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Literature study)
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 11 -14
Serious eye damage/irritation	: Not classified pH: 11 - 14
Inhalation LC50	: No Data

Not listed in the OSHA, NTO, ACGIH or IARC list of carcinogens or potential carcinogen

## SECTION 12: Ecological information

ENVIRONMENTAL FATE :

### 12.1. Toxicity

<b>sodium hypochlorite, solution, conc active chlorine=6.0% (7681-52-9)</b>	
LC50 fishes 1	> 0.20 mg/l (96 h; Pimephales promelas; Solution <50%)

### 12.2. Persistence and degradability

<b>sodium hypochlorite, solution, conc active chlorine=6.0% (7681-52-9)</b>	
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

### 12.3. Bioaccumulative potential

<b>sodium hypochlorite, solution, conc active chlorine=6.0% (7681-52-9)</b>	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

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<b>sodium hypochlorite, solution, conc active chlorine=6.0% (7681-52-9)</b>	
Environmental Toxicity	Highly toxic to aquatic organisms
Environmental Fate	Degrades slowly to sodium chloride, sodium chlorate, and oxygen



### SECTION 13: Disposal considerations

#### 13.1. Disposal Considerations

In case of spill, flood area with large quantities of water. Small quantities of spilled or unusable product should be diluted with water before disposal to a sanitary sewer (through toilet).

State and local disposal regulations may slightly differ from Federal regulations. Dispose of waste in a facility permitted for non-hazardous waste.

Do not reuse container. Triple rinse container and place into trash or recycle bin where facilities accept pigmented white HDPE bottles.

Do not allow product to enter storm drains, lakes, streams or other bodies of water. Not harmful to septic tanks.

### SECTION 14: Transport information

In accordance with DOT

Transport document description	: UN1791 Hypochlorite solutions, 8, III
UN-No.(DOT)	: UN1791
Proper Shipping Name (DOT)	: Hypochlorite solutions
Department of Transportation (DOT) Hazard Classes	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive



Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP24 - The portable tank may be fitted with a device to prevent the build up of excess pressure due to the slow decomposition of the hazardous material being transported. The device must be in the vapor space when the tank is filled under maximum filling conditions. This device must also prevent an unacceptable amount of leakage of liquid in the case of overturning.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other : 26 - Stow "away from" acids

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

UN-No. (IMDG) : 1791  
Proper Shipping Name (IMDG) : HYPOCHLORITE SOLUTION  
Class (IMDG) : 8 - Corrosive substances  
Packing group (IMDG) : III - substances presenting low danger

### Air transport

UN-No.(IATA) : 1791  
Proper Shipping Name (IATA) : HYPOCHLORITE SOLUTION  
Class (IATA) : 8 - Corrosives  
Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

U.N GHS Classification & Labeling Information

Classification: Corrosive 1B  
Specific Target Organ Toxicity (STOT)  
Single Exposure 3  
Acute Aquatic



Signal Word: Danger

H Statements: H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation

H401: Toxic to aquatic life

P Statements: P307 + 315: If exposed, get immediate medical attention

P301+P330+P331: IF SWALLOWED: rinse mouth. Do not induce vomiting.

P280: Wear protective gloves, protective clothing, eye protection/face protection.

P264: Wash thoroughly after handling.

P273: Avoid release into the environment.

Regulated Ingredients:

Sodium Hypochlorite (CAS # 7681-52-9)

Sodium Hydroxide (CAS # 1310-73-2)

OSHA CLASSIFICATION:

Physical Hazards: Reactivity                      Health Hazards: Acute Health Hazard. Corrosive

TSCA Inventory Listed: All components are listed in TSCA inventory (40CFR 710)

CERLA RQ: 100 lbs. of sodium hypochlorite (211.4 gals. of solution)

CERLA Hazardous Material: Yes

SARA Title III, Section 302:                      Not listed TPQ: N/A

SARA Title III, Section 311/312: Acute Health Hazard

Acute: Yes                      Chronic: No                      Fire: No                      Pressure: No                      Reactivity: No

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SARA Title III:, Section 313: Not subject to Toxic Chemical Release Inventory Reporting

RCRA Hazardous Waste: Not a listed Hazardous Waste. May be a D002 (characteristic corrosive) waste based upon PH value.

EPA Clean air Act: Not a listed Hazardous Air Pollutant (HAP)

EPA CLEAN EATER ACT: Listed

EPA FIFRA: Not a registered pesticide

### 15.2. International regulations

#### CANADA

WHMIS Category: Class E Corrosive Material

Ingredient Disclosure List: Listed

Domestic Substances List (DLS): Listed

#### EU-Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

## SECTION 16: Other information

#### Label Hazard Warning:

**IRRITANT, HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO EYES AND RESPIRATORY TRACK. CAUSES SUBSTANTIAL, BUT TEMPORARY EYE INJURY.**

**Label Precautiopns:** Do not get into eyes, on skin, or on clothing. Avoid breathing vapor or mist. Keep container closed when not in use. Use with adequate ventilation. Wash thouroughly after handling. **KEEP OUT OF REACH OF CHILDREN**

**Label first Aid:** If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an inconscious person. If inhaled, remove to fresh air. If not breathing, give atificial respiration. If breathing is difficult, give oxigen. In case of contact, immediately flush eyes or skin with plenty of water, for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. SEEK MEDICAL ATTENTION>

Full text of H-phrases:

Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H314	Causes severe skin burns and eye damage

NFPA health hazard

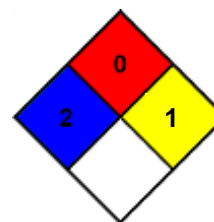
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012)

*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*