



NAPCO CHEMICAL COMPANY

Safety Data Sheet NAPCO 12.5% Bleach

SECTION 1: Identification

1.1 Product identifier

Product name	NAPCO 12.5% Bleach
Substance name	Sodium hypochlorite solution (12.5% Cl ₂)

1.4 Supplier's details

Name	NAPCO Chemical Company
Address	2830 Spring Cypress Rd Spring, Tx 77383 United States

Telephone	281-651-6800
Fax	281-651-6868

1.5 Emergency phone number(s)

ChemTel 1(800)255-3924

SECTION 2: Hazard identification

General hazard statement

Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May be corrosive to metals.

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Corrosive to metals (chapter 2.16), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 1
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram

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Signal word

Danger

Hazard statement(s)

H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H335 May cause respiratory irritation
H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P234 Keep only in original container.
P260 Do not breathe/mist/vapor/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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 POISON CENTER/doctor/...
P312 Call a POISON CENTER/doctor/... if you feel unwell.
P321 Specific treatment (see ... on this label).
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in a corrosive resistant/... container with a resistant inner liner.
P501 Dispose of contents/container in accordance with local/national regulations.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substance name Sodium hypochlorite solution (12.5% Cl₂)
Other names / synonyms Bleach, Sodium Hypochlorite, Sodium Hypochlorite 12.5%

Hazardous components

1. Sodium hypochlorite solution (10-13% Cl₂)

Concentration 10 - 12.49 %
EC no. 231-668-3
CAS no. 7681-52-9
Index no. 017-011-00-1

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- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1

H314 Causes severe skin burns and eye damage
H400 Very toxic to aquatic life

2. SODIUM CHLORIDE

Concentration 7 - 8 %
CAS no. 7647-14-5

3. Sodium Hydroxide (NA(OH))

Concentration 0.5 - 2 %
CAS no. 1310-73-2

- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H314 Causes severe skin burns and eye damage

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Do not use mouth to mouth method if victim has ingested or inhaled the substance, induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Consult a physician.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician or poison control center immediately.
Personal protective equipment for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.2 Most important symptoms/effects, acute and delayed

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Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Provide general supportive measures and treat symptomatically. Chemical burns. Flush with water immediately. While flushing, remove clothing which does not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Dry powder, Foam, Carbon dioxide (CO₂).

5.2 Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

5.3 Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Further information

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Beware of vapors accumulating. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

Reference to other sections

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates. For precautions see section 2.2.

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7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place, and away from incompatible materials. See section 10.

Specific end use(s)

No data.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sodium Hydroxide (NA(OH) (CAS: 1310-73-2)

PEL-TWA (Air): 2 mg/m³; USA (OSHA)

2. Sodium Hydroxide (NA(OH) (CAS: 1310-73-2)

PEL-C (Air): 2 mg/m³; USA (ACGIH)

3. Sodium Hydroxide (NA(OH) (CAS: 1310-73-2)

PEL-C (Air): 2 mg/m³; USA (NIOSH)

4. SODIUM CHLORIDE (CAS: 7647-14-5)

5. Sodium hypochlorite solution (10-13% Cl₂) (CAS: 7681-52-9)

8.2 Appropriate engineering controls

Distribution, Workplace and Household Settings: Ensure adequate ventilation. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Eye wash facilities and emergency shower must be available when handling this product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wearing appropriate chemical resistant gloves and impervious apron is recommended.

Body protection

Wearing appropriate chemical resistant gloves and impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Use NIOSH approved respirator with organic vapor/acid gas protection.

Thermal hazards

Wear appropriate thermal protective clothing when necessary.

Environmental exposure controls

Should not be released into the environment. See Section 12 for additional ecological information.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid.
Odor	Slight chlorine
Odor threshold	0.9 mg/m ³
pH	11.5 - 13.5
Melting point/freezing point	10 F (-12.22 C)
Initial boiling point and boiling range	230.03 F (110.02 C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability limits	Not applicable.
Upper/lower explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Complete in water.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

SECTION 10: Stability and reactivity

10.1 Reactivity

Reacts violently with strong acids. This product may react with oxidizing agents.

10.2 Chemical stability

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

10.4 Conditions to avoid

Contact with incompatible materials.

10.5 Incompatible materials

Acids. Oxidizing agents. Metals such as nickel, copper, tin, aluminum and iron.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

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Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Causes severe eye damage.

Respiratory or skin sensitization

Not a respiratory sensitizer. This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Summary of evaluation of the CMR properties

This product is not expected to contribute to any of these properties.

STOT-single exposure

Not classified.

STOT-repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Additional information

Prolonged inhalation may be harmful.

SECTION 12: Ecological information

Toxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

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Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

Disposal of the product

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Disposal of contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Waste treatment

Dispose of in accordance with local regulations.

Sewage disposal

Do not allow.

Other disposal recommendations

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

DOT (US)

UN Number: UN1791

Class: 8

Packing Group: III

Proper Shipping Name: Hypochlorite Solutions

Reportable quantity (RQ): 100

Marine pollutant: IMDG Yes (Sodium hypochlorite)

Poison inhalation hazard: No

IMDG

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

IATA

UN Number:

Class:

Packing Group:

Proper Shipping Name:

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

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Massachusetts Right To Know Components

Chemical name: Sodium hypochlorite

CAS number: 7681-52-9

New Jersey Right To Know Components

Common name: SODIUM HYPOCHLORITE

CAS number: 7681-52-9

Pennsylvania Right To Know Components

Chemical name: Hypochlorous acid, sodium salt

CAS number: 7681-52-9

Massachusetts Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

New Jersey Right To Know Components

Common name: SODIUM HYDROXIDE

CAS number: 1310-73-2

Pennsylvania Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

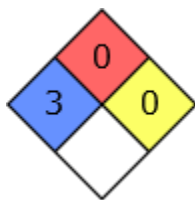
15.2 Chemical Safety Assessment

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) inventory. Read safety instructions, SDS, and emergency procedures before handling.

HMIS Rating

Sodium hypochlorite solution (12.5% Cl ₂)	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

EPA Registration Number: 813-16

NSF Maximum Use Level (STD 60): Check BOL for facility Data. (70 mg/L)

16.1 Further information/disclaimer

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and, therefore, holders and users should satisfy themselves that they are aware of all current data and regulations relevant to their particular use of product. NAPCO CHEMICAL

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