

SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

Section I - Product & Company Identification

Product identifier

Product name : LIQUID BLEACH

Product form: Liquid

Other means of identification: 1503

Relevant identified uses of the substance or mixture: Bleach

Details of the supplier of the safety data sheet

Manufacturer:

Diversified Chemical Products, Inc. 4124 B NW Riverside Street, Riverside, MO 64150

Phone: 816-472-5515

Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification

Skin corrosion/ irritation (Category 1)

Serious eye damage / eye irritation (Category 1)

Specific target organ toxicity, single exposure, (Category 3), Respiratory tract irritation.

Pictogram



Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary Statements – Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dusts or mists.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water.

IF SWALLOWED: Rinse mouth, Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements – Storage

Store in a well ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section III –Composition/Information on ingredients

Mixture

Name	CAS #	Weight %
Sodium hypochlorite	7681-52-9	12.5-15.6
Sodium chloride	7647-14-5	9-10
Sodium hydroxide	1310-73-2	0.5-2

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section IV – First Aid Measures

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician.

Skin Contact: Remove contaminated clothing, wash with soap and plenty of water. Get medical attention.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

May cause severe skin burns and serious eye damage.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: No data available. Treat symptomatically.

Section V – Fire Fighting Measures

Suitable Extinguishing Media

Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media Do not use water jet.

Specific Hazards Arising from the Chemical

Hydrogen chloride and chlorine. Chlorine gas rate of decomposition increases with the concentration with temperatures above 85 ° F (30 ° C)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

Section VI –Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so. Prevent discharge to the environment, municipal sewers.

Methods for Cleaning Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section VIII – Exposure Controls/ Personal Protection

Exposure Guidelines

<u>Chemical Name</u>	<u>CAS #</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH</u>
Sodium hypochlorite	7681-52-9	2 mg/m ³ TWA	2 mg/m ³ CEIL	2 mg/m ³ CEIL
Sodium chloride	7647-14-5	No established limit	No established limit	No established limit
Sodium hydroxide	1310-73-2	No established limit	No established limit	No established limit

Appropriate Engineering Controls

Engineering Controls: Provide adequate ventilation, eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Wear approved safety goggles and face shield where a splash hazard exists.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Section IX – Physical & Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Pale yellow or greenish
<u>Property</u>	<u>Values</u>
pH	12-13
Melting Point/Freezing Point	-3 ° F (-19.4 ° C)
Boiling Point/Boiling Range	Decomposes above 230 ° F (110 ° C)
Flash Point	None
Evaporation Rate	No data available
Flammability (Solid, Gas)	n/a-liquid
Upper Flammable Limits	No data available
Lower Flammable Limits	No data available
Vapor Pressure	17.5 mmHg @ 20 ° C
Vapor Density	No data available
Specific Gravity	1.2-1.4

Water Solubility	Complete
Solubility in Other Solvents	No data available
Partition Coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive Properties	Not an Explosive
Oxidizing Properties	No data available
Odor	Pungent, chlorine odor
Odor Threshold	No data available

Section X – Stability & Reactivity

Reactivity

Hazardous polymerization will not occur.No data available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

Contact with incompatible materials. Acid contact will produce chlorine gas.

Incompatible Materials

Any acidic material, ammonia, urea, oxidizers, organics and metals such as nickel, copper, tin, aluminum and iron.

Hazardous Decomposition Products

None are known.

Section XI - Toxicological information

Information on Likely Routes of Exposure

Product Information

Inhalation: Avoid breathing vapors or mists.

Eye Contact: Causes serious eye irritation

Skin Contact: Avoid contact with skin.

Ingestion: May be harmful if swallowed.

This product as a whole has not been tested for acute toxicity; the following is based on component data:

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hypochlorite	7681-52-9	5000 mg/kg (Rat)	10000 mg/kg (Rabbit)	10.5 mg/l (Rat)
Sodium chloride	7647-14-5	1350 mg/kg (Rabbit)	100 mg/kg (Rat)	40 mg/l (Mouse)
Sodium hydroxide	1310-73-2	6600 mg/kg (Mouse)	1350 mg/kg (Rabbit)	600 mg/l (Mouse)

Chemical Name	Sodium hypochlorite mixture
Skin corrosion/irritation	Severe skin burns
Serious eye damage/irritation	Serious eye damage
Respiratory or skin sensitization	No data available
Mutagenicity	No data available
Carcinogenicity	No evidence by IARC, ACGIH, NTP or OSHA
Reproductive toxicity	No data available
Specific target organ toxicity- Single exposure	May cause respiratory irritation
Specific target organ toxicity- repeated exposure	No data available
Aspiration hazard	Not classified.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity: Not determined

Section XII - Ecological information

Ecotoxicity

There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/aquatic plants	Fish	Aquatic invertebrates
Sodium hypochlorite	7681-52-9	ErC50 0.40 mg/l, Dunaliella primolecta, 72 h	LC50 0.08 mg/l, Pimephales promelas, 96 h	EC50 0.032 mg/l, Daphnia Magna, 48 h
Sodium chloride	7647-14-5	No data available	LC50 1100 mg/l, Freshwater fish, 96 h	EC50 3310 mg/l, Daphnia Magna, 48 h
Sodium hydroxide	1310-73-2	No data available	LC50 196 mg/l, Poecillia reticulata, 96 h	EC50 40.38 mg/l, Ceriodaphnia dubia, 48 h

Persistence and Degradability

No data available

Bioaccumulation

No data available

Mobility

No data available

Section XIII - Disposal considerations

Waste Disposal Method

Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:

Bulk or Non-Bulk: UN1791, Hypochlorite solutions, 8, PGIII

1.3 gallons or less may be shipped as a Limited Quantity.

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): Acute health hazard

SARA Title III Section 313 (40CFR372): No reportable component.

RCRA Status (40CFR261.33): No reportable components.

TSCA Inventory Status: Reported/included

OSHA/NTP/IARC Carcinogen Status: Not listed

Canadian DSL Status: Reported/included

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hypochlorite	X	X	X

Section XVI - Other information

HMIS ratings: Health: 3
Flammability: 0
Reactivity: 1

Indication of changes: Revision – 1

Date Sheet Prepared: 10/06/2015 Other information: Author – EHS Administrator

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty's, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS