SAFETY DATA SHEET

OLIVER
CHEMICAL COMPANY, INC

LIQUID BLEACH

1. PRODUCT AND COMPANY IDENTIFICATION

GHS PRODUCT IDENTIFIER:	LIQUID BLEACH
OTHER MEANS OF IDENTIFICATION:	
Product Type	Cleaning liquid mixture
Product Code	
RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:	
Product Use	Institutional Laundry Use Only
Uses Advised Against	none identified
SUPPLIER'S DETAILS:	

SDS SUPPLIED BY:
Oliver Chemical Company, Inc.
2908 Spring Grove Avenue
Cincinnati, OH 45225
1-513-541-4540 (Monday – Friday 8:30 am – 4:30 pm)

MANUFACTURED BY:
Oliver Chemical Company, Inc.
2908 Spring Grove Avenue
Cincinnati, OH 45225
1-513-541-4540 (Monday – Friday 8:30 am – 4:30 pm)

DISTRIBUTED BY:
Indy Hanger and Supply
1440 Brookville Way
Indianapolis, IN 46239
(317) 285-0314

24 Hour Emergency Contact: CHEMTREC 1-800-424-9300

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE/MIXTURE:

CODE	HAZARD SATATEMENT	HAZARD CLASS	CATEGORY
	PHYSICAL		
	HEALTH		
H314	Causes severe skin burns and eye damage	SKIN - CORROSION/IRRITATION	1B
H318	Causes serious eye damage	EYE - SERIOUS EYE DAMAGE/EYE IRRITATION	1
H302	Harmful if swallowed	ORAL - ACUTE TOXICITY	4
	ENVIROMENTAL		
H410	Very toxic to aquatic life with long lasting effects.	AQUATIC -ACUTE/CHRONIC HAZARD	1

LABEL ELEMENTS:

SIGNAL WORD: **DANGER**

HAZARD STATEMENTS:

PHYSICAL

Not applicable

HEALTH

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H302 Harmful if swallowed.

ENVIROMENTAL

H410 Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

PREVENTION

P234 Keep only in original container.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE

P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340	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 POISION CENTER or doctor/physician.
P321	Specific treatment (see First Aid information on product label and/or Section 4 of the SDS).

STORAGE

Not applicable

DISPOSAL

P501	Dispose of contents and container in accordance with applicable local, regional, and/or international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

HAZARDOUS COMPONENT	%	CAS NUMBER
Sodium hypochlorite	5.25	7681-52-9

4. FIRST-AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES:

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if irritation develops.

SKIN CONTACT: Remove contaminated clothing. Wash contaminated areas with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

EYE CONTACT: Immediately flush contaminated eyes with a direct stream of water for at least 15 minutes. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs spontaneously, keep airway clear. Monitor airway. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

CORROSIVE this material may be corrosive to any tissue it comes in contact with. It can cause serious burns and extensive tissue damage.

ACUTE SYMPTOMS/EFFECTS:

INHALATION (Breathing): Respiratory System Effects: Exposure to airborne material may cause irritation, redness of upper and lower airways, coughing, laryngeal spasm and edema, shortness of breath, bronchi-constriction, and possible pulmonary edema.
SKIN: Skin Corrosion. Exposure to skin may cause redness, itching, irritation, swelling, burns.
EYE: Serious Eye Damage. Eye exposures may cause eye lid burns, conjunctivitis, corneal edema, corneal burn, corneal perforation, damage to internal contents of the eye, permanent visual defects, and blindness and/or loss of eye.
INGESTION (Swallowing): Gastrointestinal System Effects. Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.
DELAYED SYMPTOMS/EFFECTS:
Repeated or prolonged exposures to skin that cause irritation may cause a chronic dermatitis.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:
Medical Conditions Aggravated by Exposure: Corrosive. May aggravate pre-existing eye, skin, and respiratory conditions (including asthma and other breathing disorders).
Protection of First-Aiders: Refer to Section 8 for specific personal protective equipment recommendations.
Notes to Physician: Medical observation and assessment is recommended for all ingestions, all eye exposures, and symptomatic inhalation and dermal exposures. For symptomatic ingestion, do not administer oral fluids and consider investigation by endoscopy, X-ray, or CT scan. Esophageal perforation, airway compromise, hypotension, and shock are possible. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Treatment is supportive care. Follow normal parameters for airways, breathing, and circulation. Surgical intervention may be required.

5. FIRE-FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:
Use extinguishing agents appropriate for surrounding fire.
SPECIFIC HAZARDS:
Flash Point: N/A
Oxides of carbon and various hydrocarbons.
Containers can build up pressure if exposed to heat and/or fire.
Use water spray to keep fire exposed containers cool.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:
Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Avoid contact with skin.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PERCAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Evacuate all non-essential personnel from spill area. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment recommended in section 8, Exposure Controls / Personal Protection, of the SDS.

ENVIROMENTAL PRECAUTIONS:

Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

In case of spill or leak, stop the leak as soon as possible. Small and large spills: Contain spilled material if possible. Completely contain spilled materials with dikes, sandbags, etc. After containment, collect the spilled material and transfer to a chemical waste area. Liquid material may be removed with a vacuum truck. See Section 13, Disposal Considerations, of the SDS for additional information.

7. HANDLING AND STORAGE

PERCAUTIONS FOR SAFE HANDLING:

Avoid breathing vapor or mist. Do not get into eyes, on skin or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and spattering.

CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:

Store and handle in accordance with all current regulations and standards. Store in a cool, dry well ventilated area. Keep container tightly closed and properly labeled.

Incompatibilities / Materials to avoid Flammable liquids, acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:

Occupational Exposure Limits:

Regulatory Exposure Limit(s):

CHEMICAL NAME	CAS NUMBER	OSHA Final PEL TWA
Sodium hypochlorite	7681-52-9	2 mg/m^3

Non-Regulatory Exposure Limit(s):

CHEMICAL NAME	CAS NUMBER	ACGHIA
Sodium hypochlorite	7681-52-9	2 mg/m^3

The Non-Regulatory OSHA limits, if shown are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

OSHA: Occupational Safety and Health Administration.

ACGIH: The American Conference of Governmental Industrial Hygienists.

PEL: Permissible Exposure Limit; **TWA**: Time Weighted Average; **STEL**: Short Term Exposure Limit;

TLV: Threshold Limit Values;

ENGINEERING CONTROLS:

Provide explosion-proof ventilation or other engineering controls. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear appropriate chemical safety goggles to protect against eye contact.

Skin and Body Protection: If prolonged or repeated skin contact is likely, wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

Respiratory Protection: A NIOSH approved respirator with N95 dust/mist cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Protective material types: Butyl rubber, Natural rubber, Nitrile, Polyvinyl chloride (PVC), Tyvek®

Eye wash station and shower in close proximity to use are advised.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	LIQUID/LIGHT YELLOW
ODOR:	CHLORINE
pH:	13
MELTING POINT:	NO DATA AVAILABLE
FREEZING POINT:	-10
INITIAL BOILING POINT/RANGE:	230 TO 245^{0}F
FLASH POINT:	NOT FLAMMABLE
EVAPORATION RATE:	>1 (Water=1)
FLAMMABILITY (SOLID, GAS):	NOT FLAMMABLE
UPPER FLAMMABILITY OR EXPLOSIVE LIMITS:	NOT APPLICABLE
LOWWER FLAMMABILITY OR EXPOSIVE LIMITS:	NOT APPLICABLE
VAPOR PRESSURE:	17 mmHg
VAPOR DENSITY:	2.6 (Air-1)
RELATIVE DENSITY:	1.19 (H_20 = 1)
SOLUBILITY (water):	100%
PARTITION COEFFICIENT (n-octanol/water):	NOT APPLICABLE
AUTO-IGNITION TEMPERATURE:	NOT APPLICABLE
DECOMPOSITION TEMPERATURE:	NO DATA AVAILABLE
VISCOSITY:	NO DATA AVAILABLE

10. STABILITY AND REACTIVITY

REACTIVITY: Soluble in water.
CHEMICAL STABILITY: Stable at normal temperatures and pressures.
POSSIBILITY OF HAZARDOUS REACTIONS: None known.
CONDITIONS TO AVOID: Mixing with acid or incompatible materials.
INCOMPATABLE MATERIALS: Acids and ammonia.
HAZARDOUS DECOMPOSITION PRODUCTS: When combusted, oxides of carbon and various hydrocarbons.

11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:
EYE CONTACT – May cause severe irritation such as burns, and eye damage.
SKIN CONTACT – May cause severe skin irritation and reddening of the skin.
INGESTION – May cause irritation of the membranes of the mouth and throat, stomach pain, and possible ulceration.
INHALATION – May cause burns, cough, pulmonary edema, up to 48 hours after exposure. Avoid breathing vapors.
DELAYED AND IMMEDIATE EFFECTS; SHORT AND LONG TERM:
Signs and symptoms of exposure vary, and are dependent on route of exposure, degree and duration of exposure.
COMPONENT INFORMATION:

Chemical Name	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation	Species
Sodium hypochlorite	7681-52-9	3-5 mg/kg	2 mg/kg		Rat

12. ECOLOGICAL INFORMATION

ECOTOXICITY:
No data available.
PERSISTENCE AND DEGRADABILITY:
Persistence: No data available.
Degradability: No data available.
BIOACCUMULATIVE POTENTIAL:
No data available.
MOBILITY IN SOIL:
No data available.
OTHER ADVERSE EFFECTS:
Aquatic Toxicity- This product is very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets 40 CFR 261.3 criteria for hazardous waste. Disposal should be in accordance with regional, national and local laws and regulations.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Hypochlorite Solutions
UN NUMBER: UN 1791
CLASS: 8
PACKING GROUP: III
PLACARD: RQ 1000 lbs.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

SARA 313

This product contains no known chemicals regulated under SARA 313.

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

16. OTHER INFORMATION

HMIS RATINGS:

HEALTH	3
FLAMMABILITY	0
PHYSICAL	0

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