



MATERIAL SAFETY DATA SHEET

Bleach 5.25%

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Bleach 5.25%
Synonym(s):	ST-2, ST-2056, ST-2057
General Use:	Household Bleach
Formula ID No.:	LN20
Company:	Stearns Packaging Corporation 4200 Sycamore Avenue (53714) PO Box 3216 Madison, WI 53704-0216 Phone: 1-800-655-5008 / 1-608-246-5150 Fax: 1-608-246-5149
24 Hr. Emergency Contact:	CHEM-TEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Emergency Overview

Physical Appearance:	Clear yellow liquid with chlorine odor
Immediate Concerns:	Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.
<i>Potential Health Effects</i>	
Eyes:	Corrosive – Causes severe burns and destruction of tissues.
Skin:	Corrosive to skin.
Inhalation:	Mists will burn mucous membranes.
Ingestion:	Ingestion can cause very serious damage to the mouth, esophagus, stomach, and other tissues with which contact is made, and may be fatal.
Medical Conditions Aggravated:	Note: This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IRAC or OSHA.
Carcinogen listed by: IARC (N/A) NTP (N/A) OSHA9 (N/A) ACGIH (N/A) Other (N/A)	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	%
Sodium hypochlorite	7681-52-9	5.25

State Right-to-Know: Sodium hypochlorite

See Section 8 for Exposure Limits, if available.

4. FIRST AID MEASURES

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician immediately.
Skin:	Flush area with water while removing contaminated clothing and shoes. Follow by washing with soap and water. If irritation persists, get medical attention.
Ingestion:	If conscious, drink a quart of water. Do not induce vomiting. Call a physician immediately. If unconscious or in convulsions, take immediately to a hospital or a physician.
Inhalation:	Remove victim to fresh air, if not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a Physician.

5. FIREFIGHTING MEASURES

Extinguishing Media:	
Suitable:	For fires in area use appropriate media. Examples: Water spray. Dry Chemical. Carbon Dioxide. Alcohol Foam.
Unsuitable:	Not available
Hazardous Products of Combustion:	Chlorine-containing gasses can be produced.
Fire and Explosion Hazards:	Chlorine containing gases can be produced.
Special protective equipment for fire-fighters:	Wear protective clothing including a NIOSH-approved self-contained breathing apparatus.
Fire fighting procedures:	Evacuate area of unprotected personnel. Cool the exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Stay upwind. Keep out of low areas where vapors may accumulate.
Environmental precautions:	Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.
Methods and materials for containment and cleaning up:	Observe all local, state, and federal regulations. If approved, flush to sewer with large quantities of water. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.
Conditions for safe storage, including any incompatibilities:	Corrosive material. Store in cool, well-ventilated area away from all sources of ignition and out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines:		OSHA PEL		ACGIH TLV	
Chemical Name:		TWA	STEL	TWA	STEL
Sodium hypochlorite		Not established 0.5 ppm recommended*	N/A	Not established 0.5 ppm recommended*	N/A
*Recommended exposure limit for chlorine be used as a guide					

Exposure guideline comments: ACGIH–American Conf. of Governmental Industrial Hygienists; PEL–Permissible Exposure Limit; TLV®–Threshold Limit Value; TWA–Time-Weighted Average; STEL–Short Term Exposure Limit ; OSHA–US Occupational Safety and Health Administration

Appropriate Engineering Controls:	Maintain adequate ventilation. Do not use in closed or confined space. Avoid mist formation.
Personal Prot. Equip. (PPE):	
Eye Protection:	Chemical safety goggles. Safety glasses. Face shield. Do not wear contact lenses.
Skin Protection:	Rubber (latex). Polyvinyl chloride. Neoprene.
Respiratory Protection:	If vapors or mists are present, wear NIOSH-approved respirator.
Work Hygienic Practices:	Eye wash station. Safety shower. Rubber apron. Chemical safety shoes. Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear light yellow	Flammability:	Not flammable
Physical State:	Liquid	Lower Flammability Limit:	Not available
Odor:	Chlorine odor	Upper Flammability Limit:	Not available
Odor threshold:	Not determined	Vapor pressure of actives:	Not established
pH (Concentrate):	Approximately 12.0	Vapor density (Air=1):	Not determined
Freezing Pt:	21 Deg F	Specific gravity (Water=1):	1.080
Boiling Point:	Not determined	Water Solubility:	Complete
Flash Point:	None (over 99°C)	Partition coefficient:	Not available
Evaporation Rate:	Not available (Butyl Acetate=1)	Autoignition temperature:	Not available
Viscosity:	Not available	Decomposition temp:	Not available
% Volatile by Volume:	100%	Pour Point:	Not determined

10. STABILITY AND REACTIVITY

Chemical Stability:	Unstable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Avoid temperatures above 70 Degrees Fahrenheit.
Incompatible Materials:	Ammonia. Organic Materials. Acids. Reacts with acids to release poisonous Chlorine Gas.
Hazardous Decomposition Products:	Chlorine – containing gasses can be produced.

11. TOXICOLOGICAL (HEALTH) INFORMATION

Likely Routes of Exposure:	Eyes, skin, mouth
Signs and Symptoms of Overexposure:	Eye Contact Corrosive – Causes severe burns and destruction of tissues. Skin Contact: Corrosive to skin. Inhalation: Mists will burn mucous membranes. Ingestion: Ingestion can cause very serious damage to the mouth, esophagus, stomach, and other tissues with which contact is made, and may be fatal.
Acute Health Effects:	
Eye contact:	See Section 2
Skin contact:	See Section 2
Inhalation:	See Section 2
Ingestion:	See Section 2
Target Organ Effects:	Not determined
Chronic Effects:	Not known
Medical Conditions Aggravated by Exposure:	No data available.
Acute Toxicity Values:	
Oral LD₅₀:	Not available
Acute Dermal:	Not available
Primary Skin:	Not available
Primary Eye:	Not available
Inhalation LC₅₀:	Not available

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:	Very toxic to aquatic organisms. Information available upon request.
Persistence and degradability:	This product is biodegradable.
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Comply with all local, state and federal regulations. Consult your state DNR or the EPA for specific questions. Wastewater should never enter a fresh water body without treatment. If approved, flush to sewer with large quantities of water.
Product Disposal:	Unused product or its solutions may be poured down the drain. Never pour unused product or its solutions down an outdoor drain.
For Large Spills:	Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.
Empty Container:	Container Recycling: Empty containers should be rinsed out with cold water and then placed for recycling where accepted.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN / NA Number:	UN1791
Proper Shipping Name: ST-2:	UN1791, Hypochlorite solutions, (with 7% available chlorine), 8, PG III, Ltd. Qty. Item 46380, Sub 1.
ST-2056, ST-2057:	UN1791, Hypochlorite solutions, (with 7% available chlorine), 8, PG III. Item 46380, Sub 1.
	Containers of 1 Gallon or less: DOT Proper Shipping Label: Ltd Qty Diamond Containers over 1 Gallon: Corrosive 8
DOT Hazard Class:	Corrosive, 8
Packing Group:	PG III
Marine Pollutant:	No data available
Special precautions:	No data available

Applies only during road transport. Any variation of the shipping description based on the packaging is not addressed.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

FDA Regulated:	None
EPA CERCLA RQ:	100 lbs (45.4 Kg)
EPA Registered:	None
EPA/DfE Recognized:	None
TSCA Chemical Substance Inventory Status:	All the ingredients are listed on the TSCA inventory.
Clean Water Act (CWA):	Reportable Quantity RQ 100 lbs. (45.4 kilos)
Clean Air Act (CAA):	Not available
SARA Section 311/312 (40 CFR 370) Hazards Categories:	Fire: ☐ Pressure Generating: ☐ Reactive: ☐ Acute (Immediate): ☐ Chronic (Delayed): ☐
SARA Title III Section 313 (40 CFR 372) Toxic Chemicals:	None
NSF Certified:	None
Green Seal Certified:	None

State Regulations:

California Proposition 65, Safe Drinking Water and Toxic Enforcement Act of 1986: Not listed
State Right to Know: See Section 3

International Regulations:

WHMIS Classification: C, E, F
Class Legend: A Compressed Gas; B-2 Flammable Liquid(flash pt <38°); B-3 Flammable Liquid(flash pt>38° & <93°); C Oxidizing Material; D-1B Toxic; D-2A Carcinogen; D-2B Chronic Toxin; E Corrosive; F Dangerously Reactive Material

16. OTHER INFORMATION

HMIS RATING

Concentrate		In Dilution
3	Health	1
1	Flammability	0
0	Physical Hazard	0
F	Personal Protection	N/A

Hazard Rating

0 = Insignificant
1 = Slight
2 = Moderate
3 = High
4 = Extreme

F=safety glasses, gloves, apron, respirator
N/A=Not available

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use; not for household use. KEEP OUT OF REACH OF CHILDREN.

References: www.osha.gov/dsg/hazcom/ghs.html; 49CFR Table (172.101 Hazardous Materials Table/UN#/Proper Shipping Names/PG);

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