

SAFETY DATA SHEET

F-JS-521/F-LN-522

Liquid Bleach

SECTION 1 - Identification

PRODUCT IDENTITY: Liquid Bleach

PRODUCT NUMBER: F-JS-521/F-LN-522

CORNHUSKER STATE INDUSTRIES
800 PIONEERS BLVD
LINCOLN, NEBRASKA 68502
PHONE: 800-348-7537 or 402-471-4597

Emergency Phone Number
CHEMTREC
1-800-424-9300

Recommended Use: Laundry Bleach.

Restrictions on Use: None known.

SECTION 2 – Hazard(s) Identification

Physical Hazards: Not classified

Health Hazards: Skin corrosion/irritation: Category 1

Serious eye damage/eye irritation: Category 1

OSHA defined hazards: Not classified

Label Elements



Signal Word: Danger

Hazard statement: Causes severe skin burns and eye damage. Causes serious eye damage.

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves, protective clothing, face protection, and eye protection such as safety glasses.

Response: Immediately call a **POISON CENTER** or doctor.

IF SWALLOWED: Rinse mouth. Do **NOT** induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Storage: Store locked up.

Disposal: Dispose of contents in accordance with all applicable federal, state, and local regulations.

Hazards not otherwise classified (HNOC): Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis, or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist.

Product contains a strong oxidizer. Always flush drains before and after use.

Unknown Toxicity: Not applicable.

Other information: Very toxic to aquatic life with long lasting effects.

Interaction with Other Chemicals: Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

SAFETY DATA SHEET

F-JS-521/F-LN-522

Liquid Bleach

SECTION 3 – Composition/ Information on Ingredients

Chemical Name	CAS-No	Weight	Trade Secret
Sodium hypochlorite	7681-52-9	5-10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 – First-aid Measures

First aid measures

General Advice: Call a poison control center or doctor immediately for treatment advice. Show this safety data sheet to the doctor in attendance.

Eye Contact: Hold eye open and rinse slowly gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center doctor for treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move to fresh air. If breathing is affected, call a doctor.

Ingestion: Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.

Protection of First-aiders: Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Most important Symptoms and Effects: Burning of eyes and skin.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5 – Fire-Fighting Measures

Suitable & Unsuitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

This product causes burns to eyes, skin, and mucous membranes. Thermal decomposition can release sodium chlorate and irritating gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters

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

SECTION 6 – Accidental Release Measures

Personal precautions, Protective equipment and emergency procedures

Personal Precautions: Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Use personal protective equipment as required. For spills of multiple products, responders should evaluate the MSDS's of the

SAFETY DATA SHEET

F-JS-521/F-LN-522

Liquid Bleach

products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment is complete.

Other information: Refer to protective measures listed in Section 7 and 8.

Environmental precautions

Environmental Precautions: This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams. See section 12 for ecological Information.

Methods and material for containment and cleaning up

Methods for Containment: Prevent further leakage if safe to do so.

Methods for cleaning up: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling

Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage: Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not contaminate food or feed by storage of this product.

Incompatible Products: Toilet bowl cleaners, rust removers, acids, and products containing ammonia.

SECTION 8 – Exposure Controls/Personal Protection

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hypochlorite 7681-52-9	None	None	None

ACGIH TLV: America Conference of Governmental Industrial Hygienists – Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration- Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to life or Health.

Appropriate engineering controls

Engineering Measures Showers
 Eyewash stations
 Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection: If splashes are likely to occur: Wear safety glasses with side shields (or goggles) or face shield.

Skin and Body Protection: Wear rubber or neoprene gloves and protective clothing such as long-sleeved shirt.

Respiratory Protection: If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke when using this product.

SECTION 9 – Physical and Chemical Properties

Physical State: Thin liquid

Appearance: Clear

Color: Pale yellow

Odor: Bleach

Odor Threshold: No information available.

pH: - 12

Melting/freezing point: No data available.

Boiling point/boiling range: No data available.

Flash Point: Not flammable.

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper flammability limit: No data available.

Lower flammability limit: No data available.

Vapor pressure: No data available.

Vapor density: No data available.

Specific Gravity: -1.1

Water solubility: Soluble

Solubility in other solvents: No data available.

Partition coefficient: n-octanol/water:

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 explosive.

Oxidizing Properties: No data available.

Other Information

Softening point: No data available

VOC Content (%): No data available

Particle Size: No data available

Particle Size Distribution: No data available

SECTION 10 – Stability & Reactivity

Reactivity

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

None known based on information supplied.

Incompatible materials

Toilet bowl cleaners, rust removers, acids, and products containing ammonia.

Hazardous decomposition products:

None known based on information supplied.

SECTION-11 - TOXICOLICAL Information

Information on likely routes of exposure

Product Information

Inhalation: Exposure to vapor or mist may irritate respiratory track and cause coughing. Inhalation of high concentrations may cause pulmonary edema.

Eye Contact: Corrosive. May cause severe damage to eyes.

Skin Contact: May cause severe irritation to skin. Prolonged contact may cause burns to skin.

Ingestion: Ingestion may cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting, and diarrhea.

SAFETY DATA SHEET

F-JS-521/F-LN-522

Liquid Bleach

Component Information

Chemical	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms: May cause redness and tearing of the eyes. May cause burns to eyes. May cause redness or burns to skin. Inhalation may cause coughing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: No information available

Mutagenic Effects: No information available.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

IARC(International Agency for Research on Cancer)

Group 3-Not Classifiable as to Carcinogenicity in Humans

Reproductive Toxicity: No Information available.

STOT- single exposure: No information available.

STOT-repeated exposure: No information available.

Chronic Toxicity: Carcinogenic potential is unknown.

Target Organ Effects: Respiratory system, eyes, skin, gastrointestinal tract (GI).

Aspiration Hazard: No information available.

Numerical measures of toxicity-Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

54 g/kg

ATEmix (inhalation-dust/mist)

58 mg/L

SECTION 12 – ECOLOGICAL INFORMATION

N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

N/A

SECTION 14 – TRANSPORT INFORMATION

N/A

SECTION 15 _ REGULATORY INFORMATION

N/A

SECTION 16 – OTHER INFORMATION

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Disclaimer: The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release.