SECTION 1 - Identification

PRODUCT IDENTITY: Laundry Sour

PRODUCT NUMBER: F-JS-541/F-LN-542

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 Sour
Restrictions on Use: None known

SECTION 2 – Hazard(s) Identification

Physical Hazards: Not classified

Health Hazards:

Acute Toxicity, dermal:	Category 5
Skin Irritation:	Category 3
Eye Irritation:	Category 2A

OSHA defined hazards: Not classified
Label Elements

Signal Word: Warning
Hazard statement: May be harmful in contact with skin. Causes mild skin irritation. Causes eye irritation.
Precautionary Statements: **IF SWALLOWED:** Rinse Mouth.
IF ON SKIN: Gently wash with soap and water.
IF ON EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to. Continue rinsing.

SECTION 3 – Composition/ Information on Ingredients

Ingredient	CAS Number	Percent	Hazardous
Citric Acid	77-92-9	35%	Yes
Water	7732-18-5	65%	No

SECTION 4 – First–aid Measures

Eye Contact: Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Consult a physician.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Ingestion: Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention,

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen. Get medical attention.

SECTION 5 – Firefighting Measures

Fire: Auto-ignition temperature: 1011 ˚C (1852 ˚F). Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

SECTION 6 – Accidental Release Measures

Personal precautions, Protective equipment & emergency procedures: Ventilate area of leak or spill; Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Methods and materials for containment and cleaning up: Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do no flush to sewer!

SECTION 7 – HANDLING & STORAGE

Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid.) Observe all warnings and precautions listed for the product.

SECTION 8 – Exposure Controls/Personal Protection

Airborne Exposure Limits:
OSHA Permissible Exposure Limit (PEL): None listed
ACGIH Threshold Limit Value (TLV): None listed

Ventilation System: A system of local and / or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in Oxygen- deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or overalls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and / or full face shield where dusting or splashing of solutions is possible. Maintain eye wash foundation and quick-drench facilities in work area.

SECTION 9 – Physical and Chemical Properties-

Appearance: Clear colorless liquid
Odor: Odorless
Odor Threshold: Not Information found
pH: 2.2 (0.1 N sol)
% Volatiles by volume @ 21 ˚C (70 ˚F): 0
Melting point: Melting point/range: 153 – 159 °C (307 – 318 °F) - lit. (Citric Acid)
Boiling point / Boiling range: No information found
Flash point: No information found
Evaporation Rate (BuAc=1): No information found
Flammability: No information found
Upper/Lower Flammability or Explosive Limits: No information found
Vapor Pressure (mm Hg): No information found
Vapor Density (Air=1): No information found
Solubility: 383 g/l at 25 ˚C (77 ˚F) (Citric Acid)
Partition Coefficient: n-ocanol/water: log Pow: -1.64 at 20 ˚C (68 ˚F) (Citric Acid)
Auto-ignition Temperature: 1011 ˚C (1852 ˚F) (Citric Acid)
Decomposition Temperature: No data available
Viscosity: 20 cps (Citric Acid)

SECTION 10 – Stability & Reactivity

Reactivity and /or Chemical stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions and Conditions to Avoid: Heat and incompatibles.

Incompatible Materials: Metal nitrates (potentially explosive reaction), alkali carbonates and bicarbonates, Potassium tartrate. Will corrode Copper, Zinc, Aluminum and their alloys.

Hazardous Decomposition Products: Carbon Dioxide and Carbon Monoxide may form when heated to decomposition.

SECTION-11 - TOXICOLICAL Information

Emergency Overview: WARNING! CAUSES SEVERE EYE IRRITATION. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT.

Potential Health Effects:

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

Ingestion: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Extremely large oral dosages may produce gastrointestinal disturbances. Calcium deficiency in blood may result in severe cases of ingestion.

Skin contact: Causes irritation to skin. Symptoms include redness, itching, and pain.

Eye contact: Highly irritating: may also be abrasive.

Chronic Exposure: Chronic or heavy acute ingestion may cause tooth enamel erosion.

Aggravation of Pre-existing Conditions: No information found.

Specific Target Organ Toxicity- Single Exposure (Globally Harmonized System:) No data available.

Specific Target Organ Toxicity- Repeated Exposure (Globally Harmonized System:) No data available.

Numerical Measures of Toxicity: Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Citric Acid (77-92-9)	No	No	None
Water (7732-18-5)	No	No	None

Acute Toxicity:

Oral rat LD50: 3 gm/kg; irritation skin rabbit; 500 mg/24H mild; eye rabbit: 750 ug/24H severe.

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

Issue Date: 10-30-2015

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.