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FOR CHEMICAL EMERGENCY
Involving Shipping and Handling Spills, Leak, Fire, Exposure or Accident
Call CHEMTREC 1-800-424-9300

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

Section 1 - Product Identification

Product Name: LFD® Powder Detergent, all sizes

Product ID: 2201X, 24011

Section 2 - Composition/Information on Ingredients

CHEMICAL NAME	CAS REG. #
Sodium Carbonate Anhydrous	497-19-8
Benzenesulfonic Acid	90194-45-9
Xylenesulfonic Acid	1300-72-7
Tetrasodium Pyrophosphate	7722-88-5
Sodium Sesquicarbonate	533-96-0

Other ingredients are judged to be non-hazardous, their CAS numbers and their exact percent of composition are proprietary to National Chemicals, Inc.

Section 3 - Hazardous Identification

EMERGENCY OVERVIEW: WARNING! Causes eye and skin irritation. May cause respiratory tract irritation. White, odorless, granular solid. Product is non-combustible. Reacts with acid to release carbon dioxide gas and heat. Irritating to the eyes and continuous contact may irritate the skin. Not expected to be toxic to the environment, nor to aquatic organisms.

POTENTIAL HEALTH EFFECTS: Direct contact with the product causes irritation of the eyes and continuous contact may cause skin irritation (red, dry, cracked skin). Excessive levels of airborne dust may irritate the mucous membranes and upper respiratory tract.

Section 4 - First Aid Measures

EYES: Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist as necessary.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove to fresh air. If breathing difficultly or discomfort occurs and persists, obtain medical attention.

Notes to Medical Doctor: While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

Section 5 - Fire Fighting Measures

EXTINGUISHING MEDIA: Water spray, water fog, carbon dioxide (CO₂), dry chemical

FIRE/EXPLOSION HAZARDS: not applicable

FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus.

FLAMMABLE LIMITS: not applicable

HAZARDOUS COMBUSTION PRODUCTS: Fumes of sodium oxide.

Section 9 - Accidental Release Measures

CONTAINMENT: Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish.

CLEAN UP: This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations. See Section 13 Disposal Considerations.

Section 7 - Handling and Storage

HANDLING: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. Keep material out of lakes, streams, ponds and sewer drains.

STORAGE: Keep container tightly closed. Store in cool, dry area, away from acids.

Section 8 - Exposure Controls / Personal Protection

EYES AND FACE: Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

RESPIRATORY: Whenever dust is in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear approved respirators or dust masks to protect them against airborne dust.

PROTECTIVE CLOTHING: Dry product is generally non-irritating to intact skin. However, this product can be irritating where skin has been damaged and can create skin irritation after long exposures when moisture is present. Under such conditions, gloves and long-sleeved clothing are recommended to minimize skin contact.

Section 9 - Physical and Chemical Properties

ODOR:	Odorless	APPEARANCE:	White, granular solid
BOILING POINT:	Decomposes	EVAPORATION RATE:	not applicable
FLASH POINT:	Non-combustible	FREEZING POINT:	851° C (1564° F)
ODOR THRESHOLD:	not applicable	OXIDIZING PROPERTIES:	not applicable
PERCENT VOLATILE:	not applicable	EVAPORATION RATE:	not applicable
VAPOR DENSITY:	not applicable	VAPOR PRESSURE:	not applicable

Section 10 - Stability and Reactivity

CONDITIONS TO AVOID: Contact with acids except under controlled conditions.

STABILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Reacts with acids with release of large volumes of carbon dioxide gas and heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Heated to decomposition, it emits fumes of sodium oxide.

MATERIALS TO AVOID: Aluminum powder, acids, fluorine, molten lithium

Section 11 - Toxicological Information

EYE EFFECTS: Severe irritant.

SKIN EFFECTS: Non-irritating to intact skin. Minor irritation may occur on abraded skin.

ACUTE EFFECTS FROM OVEREXPOSURE: May cause severe irritation of the eyes, including corneal opacities. Dusts and mists may be irritating to the skin, mucous membranes and upper respiratory tract. No significant acute toxicological effects expected.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the product.

CARCINOGENICITY: NTP: not listed IARC: not listed OSHA: not listed other: (ACGIH) not listed

Section 12 - Ecological Information

ECOTOXICOLOGICAL: This product is expected to be moderately toxic to aquatic organisms.

CHEMICAL FATE: Biodegradability does not apply to inorganic substances. No significant toxicity to aquatic organisms is expected.

Section 13 - Disposal Method

DISPOSAL METHOD: As purchased, this product is not a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). Non-hazardous waste may be disposed of in a landfill in accordance with government regulations.

Section 14 - Transportation Information

US DOT: not regulated

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG): not regulated

Section 15 - Regulatory Information

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A): not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370): Immediate (Acute) Health Hazard

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370): not listed

SECTION 313 HAZARD REPORTABLE INGREDIENTS (40 CFR 370): not listed

CERCLA DESIGNATION AND REPORTABLE QUANTITIES (RQ) (40 CFR 302.4): not listed

TSCA INVENTORY STATUS (40 CFR 710): Sodium Carbonate, Benzenesulfonic Acid, Xylenesulfonic Acid, Tetrasodium Pyrophosphate and Sodium Sesquicarbonate are listed

Section 16 - Other Information

SUPERCEDES DATE: January 1, 2005

The information and recommendations in this Material Safety Data Sheet are based upon data believed to be correct and does not relate to its use in combination with any other material or process. Since use conditions vary, we assume no liability for failure to follow product use direction and safety precautions. As data, standards and regulations change; NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.