

Infosafe No™ VARCE Issue Date : November 2024 ISSUED by MILESTON

Product Name **L.F. DAIRY DETERGENT POWDER**

Section 1 - Identification

Product Identifier L.F. DAIRY DETERGENT POWDER

Company Name Milestone Chemicals Pty. Ltd. (ABN 85115166357)

Address 115 Northern Road West Heidelberg
VIC 3081 AUSTRALIA

Telephone/Fax Number Tel: (03) 9450 4555
Fax: (03) 9457 5518

Emergency Phone Number (03) 9450 4555 Mon-Fri 8am - 6pm

Recommended use of the chemical and restrictions on use Low foaming biodegradable general purpose cleanser for milking machines.

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture Eye damage/irritation: Category 1
Skin corrosion/irritation: Category 1B

Signal Word DANGER

Hazard Statement (s) H314 Causes severe skin burns and eye damage.

Pictogram (s) Corrosion



Precautionary Statement – Prevention P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P280(f) Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement – Response P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 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 POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.

Precautionary Statement – Storage P405 Store locked up.

Precautionary Statement – Disposal P501 Dispose of contents/container: Recycle packaging by replacing cap and returning clean containers to recycler or designated collection point.

Precautionary Statement – General P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.

Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion
	Sodium metasilicate, pentahydrate	10213-79-3	30-60 %
	Sodium hydroxide	1310-73-2	10-30 %
	Sodium carbonate	497-19-8	10-30 %
	Other ingredients determined not to be hazardous	N/A	to 100%

Section 4 - First Aid Measures

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Inhalation	Remove victim to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult
Ingestion	If swallowed, do NOT induce vomiting. Give a glass of water to be taken slowly. Seek urgent medical assistance.
Skin	If skin contact occurs, remove contaminated clothing and wash skin thoroughly. Wash clothing before re-use. Seek medical assistance.
Eye	If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek urgent medical assistance.
First Aid Facilities	Eye wash. Hand wash basin. Emergency shower.
Advice to Doctor	Product contains sodium hydroxide and is highly corrosive. Vomiting has not been induced because of risk of aspiration into the lungs. If swallowed, may cause holes in stomach and intestines. Evacuation of stomach should not be attempted. Contact Poisons Information Centre.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Water fog or fine water spray.
Hazards from Combustion Products	Corrosive or toxic fumes.
Specific Methods	In case of small fire/explosion use water. In case of major emergency use PPE: breathing apparatus and protective gloves.
Specific Hazards Arising from the Chemical	Not flammable. Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas. Will react vigorously or violently with acids, generating much heat, and giving off carbon dioxide, a simple asphyxiant. Contact with ammonium compounds will generate ammonia, a poisonous gas.
Hazchem Code	2X

Section 6 - Accidental Release Measures

Methods and materials for containment and cleaning up	Remove all non-ferrous metals from area (aluminium, zinc and magnesium), if product has spilt on these metals immediately, flush them with plenty of water and shut off ignition sources, no smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour; but it may not prevent ignition in closed spaces.
Spills & Disposal	SMALL SPILLS: Take up with sand, dirt or vermiculite. Do NOT use sawdust. Use non-sparking tools. Place into labeled plastic drum(s) for later disposal. LARGE SPILLS: Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.
Personal Protection	Wear protective clothing to prevent eye and skin contamination. Ensure an eye bath and safety shower is available. Operators are recommended to wear full protective clothing, glasses, gloves, apron etc. including footwear.
Environmental Precautions	Prevent spills from entering drains and waterways. Contact local emergency services if contamination of sewers or waterways occurs.
Other Information	Products that contain alkali hydroxides must be kept away from non-ferrous metals, as extremely flammable hydrogen gas will be generated and if the appropriate flammability limits are reached and a source of ignition is present, a violent explosion will occur.

Section 7 - Handling and Storage

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Precautions for Safe Handling	Handle according to good manufacturing and industrial hygiene practices. Do not drink, eat or smoke while handling. Respect good personal hygiene.
Conditions for safe storage, including any incompatibilities	Avoid prolonged breathing of vapors and skin or eye contact. Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents and strong acids. Keep containers tightly closed, when not using the product. Store in original packages as approved by manufacturer.
Unsuitable Materials	Store away from acids. Hydrogen gas is generated when undiluted material contacts aluminium, zinc or tin.
Additional information on precautions for use	Mixing this product with strong mineral acids such as sulfuric, nitric and/or hydrochloric acid will result in a highly exothermic (releasing heat) reaction, which may lead to a fire and potential explosion.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limit (OEL) Values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Sodium hydroxide			2		Peak limitation
Engineering Controls	Corrosive solid. Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.					
Personal Protective Equipment	Avoid contact with skin and eyes. Avoid breathing dusts or aerosols. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:- Face shield or safety glasses Gloves, rubber or plastic Overalls. The use of a respirator is not normally required, however, if high dust levels are present, then the use of a suitable dust mask or half-face respirator with a P1 filter is recommended. All respirators must comply with AS/NZS 1715 and AS/NZS 1716. Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.					

Section 9 - Physical and Chemical Properties

Form	Solid
Appearance	White free flowing powder.
Odour	Mild slightly sweet
Solubility in Water	Approx. 50 grams per litre
pH	pH 1% solution: 12-13
Vapour Pressure	None
Density	2.1 (bulk density)
Flash Point	None.
Flammability	Not flammable. Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas.

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Incompatibles.
Incompatible Materials	Strong alkalis and oxidizing agents.

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Hazardous Decomposition Products Emits choking and corrosive fumes when heated to decomposition.

Section 11 - Toxicological Information

Acute Toxicity - Oral LD50 Sodium Hydroxide Oral Mouse: 40 mg/kg
Oral Rat: 140-340 mg/kg

Ingestion Will cause severe burns to the mouth, mucous membranes, throat, oesophagus and stomach with effects including: Spontaneous vomiting with diarrhoea and possible bloody stools. Small quantities, approximately 20-50 ml, ingested (swallowed) will cause death.

Inhalation Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, chest pains, respiratory paralysis and or failure.

Skin Will cause severe burns to the skin, with effects including; Redness, blistering, localised pain, dermatitis and deep burns.

Eye Will cause severe burns to the eyes with effects including: Pain, tearing, corneal opacity and blindness. If prompt action is not taken, permanent eye damage will occur.

Chronic Effects Prolonged contact may cause severe eye irritation and some form of permanent eye damage may occur. Prolonged or repeated skin contact will lead to necrosis (death) of the skin. Repeated ingestion of some phosphates (120-240mg/kg/day) has been shown to cause increased calcium excretion and soft tissue calcification in man.

Section 12 - Ecological Information

Ecotoxicity In large concentrations this product is detrimental to the aquatic environment.

Persistence and Degradability Inherently Biodegradable.

Mobility Powder is easily contained, but material is reasonably soluble in large amounts of water.

Environmental Fate This substance may cause long term adverse effects in the aquatic environment.

Environmental Protection Avoid contaminating waterways, drains, sewers, or ground.

Section 13 - Disposal Considerations

Waste Disposal Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Advise of caustic/alkali nature. Normally suitable for disposal by approved waste disposal agent.

Section 14 - Transport Information

Transport Information Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7. Store away from acids.

ADG UN Number 1759

ADG Proper Shipping Name CORROSIVE SOLID, N.O.S.

ADG Transport Hazard Class 8

ADG Packing Group II

Hazchem Code 2X

EPG Number 8A1

IERG Number 37

Section 15 - Regulatory Information

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Poisons Schedule S6
Australia (AICS/AIC) All components listed.

Section 16 - Any Other Relevant Information

Date of Preparation 3/11/2024

Literature References Preparation of Safety Data Sheets for hazardous Chemicals Code of Practice Standard for the Uniform Scheduling of Medicines and Poisons
Australian Code for the Transport of Dangerous Goods by Road & Rail
Globally Harmonised System of classification and labelling of chemicals GHS7

Signature of Preparer/Data Service Technical manager Tel: (03) 9450 4555

Technical Contact Numbers Emergency Advice All Hours:
Chief Chemist Tel: (03) 9450 4555 Mon-Fri 8am - 6pm
Poisons Information Centre: 13 11 26 - 24hrs

Other Information This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below.
...End Of MSDS...

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