



Lactose Powder  
Safety Data Sheet  
Technical Specifications  
Intolerance Data

We don't just sell machines—  
we provide service.

# Contents

<b>1. Safety Data Sheet</b>	<b>3</b>
1.1 Description	3
1.2 Ingredients/Identity Information	3
1.3 Hazards Identification	4
1.4 First Aid Procedures	5
1.5 Fire and Hazard Data	6
1.6 Release/Spill Measures	7
1.7 Storage	7
1.8 Control Methods/PPE	7
1.9 Physical and Chemical Properties	8
1.10 Stability and Reactivity	8
1.11 Toxicological Information	9
1.12 Ecological Information	10
1.13 Disposal Considerations	10
1.14 Transport Information	10
1.15 Regulatory Information	10
1.16 Other Information	11
<b>2. Technical Specifications</b>	<b>12</b>
2.1 Product Data	12
2.2 Microbiological Test	13
2.3 Metals	13
2.4 Confirmation of Status List	14
<b>3. Intolerance Data</b>	<b>15</b>
3.1 Intolerance Data Table	15

# 1. Safety Data Sheet



## 1.1 Description

<b>Product Name</b>	Lactose Monohydrate Powder
<b>Product Code</b>	LCP
<b>Supplier</b>	LFA Machines Oxford Ltd. Unit 4b, 26-27 Murdock Road Bicester, Oxfordshire OX26499 United Kingdom Tel: +44 (0) 1869 250 234

## 1.2 Ingredients/Identity Information

<b>Components</b>	Lactose
<b>% in Product</b>	100%
<b>CAS Number</b>	63-42-3
<b>Formula</b>	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>
<b>EINECS Number</b>	N/A

## 1.3 Hazards Identification



<b>Potential Acute Health Effects</b>	Not expected to be a hazard (inhalation). Extremely large oral doses may produce gastrointestinal disturbance (ingestion). No adverse effects (skin contact). No adverse effects expected but dust may cause mechanical irritation (eyes).
<b>Potential Chronic Health Effects</b>	No information found.
<b>Carcinogenic Effects</b>	Not available
<b>Mutagenic Effects</b>	Not available
<b>Teratogenic Effects</b>	Not available
<b>Developmental Toxicity</b>	Not available
<b>Hazardous Symbol/ Pictograms</b>	Not applicable
<b>Signal Words</b>	Not applicable

As part of good industrial and personal hygiene and safety procedures, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

To the best of our knowledge, our products do not contain any contaminants or by-products known to the State of California that cause cancer or reproductive toxicity as listed under Proposition 65 Drinking Water and Toxic Enforcement Act.

## 1.4 First Aid Procedures



<b>Eye Contact</b>	If symptoms develop, immediately move individual away from exposure and into fresh air. Rinse with plenty of water for at least 15 minutes while holding eyelids apart. Seek medical attention if irritation persists.
<b>Skin Contact</b>	Remove contaminated clothing. Wash with soap and copious amounts of water.
<b>Serious Skin Contact</b>	Get medical attention.
<b>Inhalation</b>	Immediate first aid is not likely to be required. If symptoms develop, remove to fresh air. If breathing is difficult, seek medical assistance.
<b>Serious Inhalation</b>	Get medical attention.
<b>Ingestion</b>	Not available.
<b>Serious Ingestion</b>	Get medical attention.

## 1.5 Fire and Hazard Data



<b>Fire</b>	Not considered to be a fire hazard.
<b>Explosion</b>	Not considered to be an explosion hazard.
<b>Fire Extinguishing Media</b>	Use any means suitable for extinguishing surrounding fire.
<b>Special Information</b>	Use protective clothing and breathing equipment appropriate for the surrounding fire.

### Firefighting Media and Instructions

#### Small Fire

Use extinguishing media most appropriate for the surrounding fire. Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode. Dike area to prevent run off and contamination of water sources.

#### Large Fire

Use extinguishing media most appropriate for the surrounding fire. Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode. Dike area to prevent run off and contamination of water sources.



## 1.6 Release/Spill Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 1.8. For spills, sweep up and hold in a suitable container for disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## 1.7 Storage

Keep in a tightly closed container and store in a cool, dry ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when emptied since they retain product residues. Observe all warnings and precautions listed for the product.

## 1.8 Control Methods/PPE

### Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure.

### Personal Protective Equipment

- Appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Wear appropriate protective gloves to prevent skin contact.
- Wear appropriate protective clothing to prevent skin exposure.
- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## 1.9 Physical and Chemical Properties



<b>Physical State</b>	Free flowing crystals/crystalline powder
<b>Color</b>	White to off-white
<b>Odor</b>	Characteristic

## 1.10 Stability and Reactivity

<b>Chemical Stability</b>	Stable under conditions mentioned in section 1.7.
<b>Conditions to Avoid</b>	Heat and incompatible materials.



## 1.11 Toxicological Information



<b>Skin Contact</b>	May cause skin irritation and drying of the skin.
<b>Eye Contact</b>	May cause eye irritation.
<b>Inhalation</b>	May cause irritation to the upper respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed in large amounts.

See Registry of Toxic Effects of Chemical Substances (RTECS) for complete information.

## 1.12 Ecological Information



<b>Ecotoxicity</b>	Not available. Do not enter into drains.
<b>Air Pollution</b>	Observe local/national regulations

## 1.13 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use, or contamination of this product may change the waste management options. State local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

## 1.14 Transport Information

### Transport Classification

Not classified as dangerous for any mode of UK or International transport.

## 1.15 Regulatory Information

Reviews, Standards, and Regulations: Health & Safety at Work Act 1974. COSHH Regulations (1994). EH40 Occupational Exposure Limits.

## 1.16 Other Information



This advice is given by LFA Machines Oxford Ltd., who accept no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterized or unknown.

We confirm that the information above is sourced from the original manufacturers/suppliers.

## 2. Technical Specifications

### 2.1 Product Data



<b>Product Code</b>	LCP
<b>Raw Material Full Name</b>	Lactose Monohydrate Powder
<b>Raw Material Full Botanical/ Chemical/Latin/Trade Name/ Synonyms</b>	Lactose
<b>Limit/Range/Specification</b>	Min 99%
<b>CAS Number</b>	63-42-3
<b>EC/EINECS Number</b>	Not available
<b>Molecular Formula for the Raw Material</b>	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>
<b>Average Molecular Weight</b>	342.30 g/mol
<b>Boiling Point</b>	668.9°C
<b>pH</b>	5.6
<b>Particle Size</b>	40% <75 Micron 98% <200 Micron 2% >200 Micron
<b>Origin of Product (Synthetic, Mineral, Animal, Fish, or Fermented)</b>	Animal
<b>Material is</b>	100%
<b>Compound Ingredients</b>	None
<b>Shelf Life from Date of Manufacture</b>	2 years
<b>Storage Conditions</b>	This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight.
<b>Appearance (Color, Flavor/Taste, Texture, Odor)</b>	Free flowing crystals/crystalline powder. Color is white/off-white. Flavor/taste is characteristic. Odor is characteristic.
<b>Bulk Density</b>	0.75 g/ml - 0.95 g/ml

## 2.2 Microbiological Test



<b>Free Moisture</b>	Max 0.5%
<b>Protein</b>	Max 0.3%
<b>Lactose</b>	Min 99.5%
<b>Ash</b>	Max 0.5%
<b>pH (10% Solution)</b>	Min 5.6
<b>Total Plate Count (TVC)</b>	Max 5,000 cfu/g
<b>Yeast and Molds</b>	Max 100 cfu/g
<b>E.Coli</b>	Absent in 25 g
<b>Salmonella</b>	Absent in 25 g

## 2.3 Metals

<b>Heavy Metals</b>	Max 10 ppm
<b>Lead (Pb)</b>	<0.200 ppm
<b>Chloride (Cl)</b>	<0.200 ppm
<b>Copper (Cu)</b>	<0.200 ppm
<b>Arsenic (As)</b>	<0.200 ppm
<b>Pharmacopoeia Standard Used</b>	ICP-OES

There are no nuts in this recipe, and there are no nuts on site. However, we cannot guarantee that the raw materials entering the site are nut free.

## 2.4 Confirmation of Status List



### CONFIRMATION OF BSE/TSE STATUS

This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE. This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.

### CONFIRMATION OF GM STATUS

This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under regulations 1829/2003/EC and 1830/2003/EC.

### CONFIRMATION OF NON-IRRADIATION STATUS

This is to certify that this product, whole or in part, has not been subjected to ionizing radiation as per European Directives 1999/2/EC and 1000/3/EC.

### CONFIRMATION OF NANDROLONE STATUS

This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.

### CONFIRMATION OF IOC PRODUCT STATUS

This is to certify that this product, whole or in part, has not come into contact with any product(s) banned by the IOC (International Olympics Committee).

### CONFIRMATION OF ANIMAL TESTING STATUS

This is to certify that all the products sold by LFA Machines Oxford Ltd. have not been tested on animals in any part of its manufacture in accordance with regulation 86/609/EEC.

### CONFIRMATION OF PESTICIDES STATUS

This is to certify that the above-mentioned product complies with the regulation (EC) No. 396/2005 of 23rd February 2005 and commission regulation (EU) No. 559/2011 of 7th June 2011 amending annexes II and III of the above Regulation.

## 3. Intolerance Data

### 3.1 Intolerance Data Table



Free from all animal products (beef, pork, poultry, or other)	NO
Free from bovine products or derivatives by using hormones to increase milk yield in cows	NO
Free from bone meal	YES
Free from peanuts and peanut derivatives (including possible cross contamination)	YES
Free from other nut and nut derivatives	YES
Free from nut derived oil	YES
Free from sesame seeds and sesame seed derivatives	YES
Free from poppy seeds and poppy seed derivatives	YES
Free from sunflower seeds and sunflower seed derivatives	YES
Free from other seeds and seed derivatives	YES
Free from milk and milk derivatives	YES
Free from egg and egg derivatives	YES
Free from cereals containing gluten (wheat/rye/oats/barley/spelt/kamut or their hybridized strains) and derivatives	YES
Free from soya and soya derivatives	YES
Free from maize and maize derivatives	YES
Free from corn and corn derivatives	YES
Free from lupin and lupin derivatives	YES
Free from yeast and yeast derivatives	YES
Free from cotton seeds (flour) and cotton seed derivatives	YES
Free from rice and rice derivatives	YES
Free from mustard and mustard derivatives	YES
Free from celery and celery derivatives	YES
Free from celeriac and celeriac derivatives	YES
Free from fruit and fruit derivatives	YES
Free from vegetable and vegetable derivatives	YES
Free from carrot and carrot derivatives	YES
Free from legumes/pulses	YES



Free from fish and fish derivatives	YES
Free from crustaceans and/or molluscs and their derivatives	YES
Free from additives	YES
Free from added salt	YES
Free from added sugar	YES
Free from antioxidants	YES
Free from artificial glutamates	YES
Free from aspartame	YES
Free from Azo and coal tar dyes	YES
Free from benzoates (E210/E219)	YES
Free from BHA/BHT (E320/E321)	YES
Free from caffeine	YES
Free from cinnamon	YES
Free from cocoa	YES
Free from colors (artificial/nature identical/natural/smoked)	YES
Free from dextrose	NO
Free from dioxins	YES
Free from ethanol	YES
Free from ethylene oxide	YES
Free from flavorings (artificial/nature identical/natural/smoked)	YES
Free from garlic	YES
Free from gelatine	YES
Free from glutamates (E620 to E625)	YES
Free from histamine	YES
Free from hickory	YES
Free from honey	YES
Free from lactose	NO





<b>Free from latex</b>	YES
<b>Free from MSG (added and naturally occurring E621)</b>	YES
<b>Free from nucleotides (E627, E630, E631. E635)</b>	YES
<b>Free from polyols</b>	YES
<b>Free from preservatives</b>	YES
<b>Free from starch products (including maltodextrin)</b>	YES
<b>Free from sorbic acid (E200, E203)</b>	YES
<b>Free from sulphur dioxide and sulphites at levels above 10 mg/kg or 10 mg/liter express as SO<sup>2</sup></b>	YES
<b>Free from sweeteners</b>	YES
<b>Free from vanillin</b>	YES
<b>Suitable for diabetics</b>	YES
<b>Suitable for Celiacs</b>	YES
<b>Suitable for Ovo-Lacto Vegetarians</b>	YES
<b>Suitable for Vegans</b>	YES
<b>Kosher Certified</b>	NO (not certified)
<b>Halal Certified</b>	NO (not certified)



LFA MACHINES

[www.lfamachines.com](http://www.lfamachines.com)

**United Kingdom**

Unit 4B  
Murdock Road  
Bicester  
Oxfordshire  
United Kingdom  
OX26 4PP

**United States**

6601 Will Rogers Blvd  
Fort Worth  
Texas  
United States  
76140

**Germany**

Business Parc Am  
Trippelsberg 92  
Düsseldorf  
Germany  
40589

**Taiwan**

7F-5, No. 2, Sec. 2  
Taiwan Blvd  
West District  
Taichung City  
403