



Xylitol DC  
Safety Data Sheet  
Technical Specifications  
Intolerance Data

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# 1. Safety Data Sheet



## 1.1 Description

<b>Product Name</b>	Xylitol DC
<b>Product Code</b>	XYL
<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>	Xylitol
<b>% in Product</b>	100%
<b>CAS Number</b>	87-99-0
<b>Formula</b>	C <sub>5</sub> H <sub>12</sub> O <sub>5</sub>
<b>EINECS Number</b>	N/A

## 1.3 Hazards Identification



<b>Potential Acute Health Effects</b>	Not expected to be a hazard (inhalation). Serious inhalation may produce persistent cough and possible difficulty in breathing.
<b>Potential Chronic Health Effects</b>	Not applicable
<b>Carcinogenic Effects</b>	Not applicable
<b>Mutagenic Effects</b>	Not applicable
<b>Teratogenic Effects</b>	Not applicable
<b>Developmental Toxicity</b>	Not applicable
<b>Hazardous Symbol/ Pictograms</b>	Not applicable
<b>Signal Words</b>	Not applicable

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>	Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.
<b>Skin Contact</b>	Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.
<b>Serious Skin Contact</b>	Get medical attention.
<b>Inhalation</b>	Not expected to require first aid measures. Treat symptoms and provide fresh air. Get medical advice if irritation develops.
<b>Serious Inhalation</b>	Get medical attention.
<b>Ingestion</b>	Ingestion of large doses may cause gastrointestinal disturbances. Seek medical attention if discomfort persists.
<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 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

### Procedure if Material is Spilled or Released

Sweep up and recontainerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Avoid generating dusty conditions.

### Methods for Material Containment and Cleaning Up

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

### Environmental Precautions

Not applicable.

## 1.7 Storage

Handling precaution: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Do not store near hazardous or odorous material. Protect from humidity (material is hygroscopic).

## 1.8 Control Methods/PPE

### Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### 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 and follow normal GMP and safety guidelines.
- 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>Appearance</b>	White to off-white crystalline powder
<b>Odor</b>	Odorless
<b>Solubility</b>	Easily soluble in cold water
<b>pH of 1% Solution</b>	5.0-7.0
<b>Specific Gravity</b>	1.52
<b>Melting Point</b>	92-96°C
<b>Sweetness</b>	70% as sweet as sucrose
<b>Coeffizient octanol/water</b>	Not available
<b>Solubility in water</b>	Soluble in water
<b>Solubility other</b>	Soluble in methanol
<b>Other physical data</b>	Not available
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>12</sub> O <sub>5</sub>
<b>Molecular Weight</b>	152.15 g/mol

## 1.10 Stability and Reactivity

<b>Stability</b>	Stable under ordinary conditions of use and storage.
<b>Hazardous Decomposition Productions</b>	No data available.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Incompatibilities</b>	No data available.
<b>Conditions to Avoid</b>	Humidity



## 1.11 Toxicological Information



Product name	Results	Species	Dose	Exposure
Xylitol	Oral LD50	Rabbit	12500 mg/kg	None listed
Xylitol	Oral LD50	Rat	16500 mg/kg	None listed
Route of Entry	Ingestion			
Aspiration Hazard	No data available			
Carcinogenicity	IARC	ACGIH	NTP	OSHA
	Not listed	Not listed	Not listed	Not listed
Signs and Symptoms	May cause slightly to eyes and skin irritation. Large quantities of xylitol can have a laxative effect.			

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



## 1.12 Ecological Information

<b>Environmental Toxicity</b>	No data available.
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## 1.13 Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classed as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part. Additionally, waste generators must consult state and local hazardous waste to ensure complete and accurate classification.

RCRA P-Series and U-Series: None listed.

## 1.14 Transport Information

### Transport Classification

Classified as NOT RESTRICTED as per IATA DGR 55th Edition.

## 1.15 Regulatory Information

CAS No. 87-99-0 is listed on the TSCA inventory.

On TSCA July 2005 Inventory. On NDSL, Canada Gazette, Part I, January 31, 1998.

On ENCS. On AICS, Australian Inventory of Chemical Substances, June 1996 Ed.

On ECL. On PICCS. On ASIA-PAC.

## 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>	XYL
<b>Raw Material Full Name</b>	Xylitol DC
<b>CAS Number</b>	87-99-0
<b>EC/EINECS Number</b>	Not available
<b>Molecular Formula for the Raw Material</b>	C <sub>5</sub> H <sub>12</sub> O <sub>5</sub>
<b>Assay</b>	≥96.5% Xylitol
<b>Other Polyols</b>	≤1.0%
<b>Reducing Sugar (as Glucose)</b>	≤0.20%
<b>Loss on Drying</b>	≤0.50%
<b>Residue on Ignition</b>	≤0.50%
<b>Bulk Density</b>	0.44~0.76 g/mL
<b>Remains on 800Mic (No. 24 mesh)</b>	≤5%
<b>On pan through 200Mic (No. 75 mesh)</b>	≤15%
<b>Appearance (Color, Flavor/Taste, Texture, Odor)</b>	White granules, sweet and no odor.

## 2.2 Microbiological Test



<b>Yeast and Molds</b>	$\leq 10$ CFU/g
<b>E.Coli</b>	$< 3.0$ MPN/g
<b>Salmonella</b>	Absent in 25 g
<b>Aerobic plate count</b>	$\leq 100$ CFU/g

## 2.3 Metals

<b>Heavy Metals (as Pb)</b>	$\leq 10$ mg/kg
<b>Lead (Pb)</b>	$\leq 1$ mg/kg
<b>Arsenic (as As)</b>	$\leq 2$ mg/kg
<b>Nickel</b>	$\leq 1$ mg/kg

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)	YES
Free from bovine products or derivatives by using hormones to increase milk yield in cows	YES
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	NO (corn)
Free from corn and corn derivatives	NO (corn)
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	NO
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	YES
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	YES





Free from latex	YES
Free from MSG (added and naturally occurring E621)	YES
Free from nucleotides (E627, E630, E631. E635)	YES
Free from polyols	YES
Free from preservatives	NO
Free from starch products (including maltodextrin)	NO
Free from sorbic acid (E200, E203)	YES
Free from sulphur dioxide and sulphites at levels above 10 mg/kg or 10 mg/liter express as SO <sup>2</sup>	YES
Free from sweeteners	YES
Free from vanillin	YES
Suitable for diabetics	YES
Suitable for Celiacs	YES
Suitable for Ovo-Lacto Vegetarians	YES
Suitable for Vegans	YES
Kosher Certified	YES
Halal Certified	YES



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