



# WLE4100 Ultra-Ferm SDS

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	Ultra-Ferm	<b>MANUFACTURER:</b>	White Labs, Inc.
<b>SYNONYMS:</b>	N/A		9495 Candida Street San Diego, CA 92126 USA 1.858.693.3441
<b>PRODUCT CODES:</b>	WLE4100		
<b>PRODUCT USE:</b>	Hydrolyzes dextrins		

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<b>INGREDIENT:</b>	Glucoamylase	<b>CAS Number:</b>	9032-08-0
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## SECTION 3: HAZARDS IDENTIFICATION

<b>HAZARD CLASS:</b>	Skin irritant Category 2, Eye irritant Category 2B, Respiratory Sensitizer Category 1, Specific Target Organ Toxicant – Single exposure (Respiratory Irritant) Category 3
<b>SIGNAL WORD:</b>	Danger
<b>HAZARD STATEMENT:</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause skin and eye irritation.



<b>PICTORGRAMS:</b>	
<b>PRECAUTIONARY STATEMENT:</b>	Avoid breathing dust/mist/vapor/spray. Use in a well-ventilated area. Wear respiratory protection. Avoid contact with skin, eyes and clothing. Wear protective gloves and safety glasses with side shields. Ensure regular cleaning of equipment, work area, and clothing. Do not ingest.

## SECTION 4: FIRST AID MEASURES

<b>EYES:</b>	In case of contact with eyes, flush eyes with low pressure water for at least 15 minutes. If irritation develops, seek medical attention.
<b>SKIN:</b>	In case of contact with skin, wash skin with soap and cold water. Remove contaminated clothing and wash.
<b>INGESTION:</b>	If swallowed, rinse mouth and throat thoroughly with tap water. Drink water.
<b>INHALATION:</b>	If inhaled remove from contaminated area to fresh air. Report the situation. Seek medical attention if allergic response is exhibited.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>EXTINGUISHING MEDIA:</b>	Standard procedure for a chemical fire. Foam. Water.
<b>UNSUITABLE EXTINGUISHING MEDIA:</b>	None
<b>EXPOSURE HAZARDS:</b>	None
<b>PROTECTIVE EQUIPMENT:</b>	No special requirements

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS:</b>	Use only with adequate ventilation. Avoid formation of dust and aerosols.
<b>EMERGENCY PROCEDURES:</b>	Move to fresh air. Seek medical attention if allergic response is exhibited.
<b>CONTAINMENT METHODS:</b>	Prevent further leakage or spillage if safe to do so.
<b>CLEANUP PROCEDURES:</b>	Contain and remove spilled product by mechanical means or with a vacuum cleaner with a filter.

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## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Never handle without appropriate PPE. Keep container tightly closed in a cool, dry, and ventilated space.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS:

<b>Ventilation:</b>	Adequate ventilation	<b>Skin Protection:</b>	Handle with gloves
<b>Respiratory protection:</b>	NIOSH respirator	<b>Work hygienic practices:</b>	Wash hands
<b>Eye protection:</b>	Protective glasses		

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White to Tan liquid	<b>Vapor Density (Air = 1):</b>	No information available
<b>Odor:</b>	Characteristic enzyme	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	No information available
<b>Physical State:</b>	Liquid	<b>Evaporation Rate:</b>	No information available
<b>pH:</b>	No information available	<b>Solubility in Water:</b>	Soluble
<b>Boiling point:</b>	No information available	<b>Autoignition:</b>	No information available
<b>Melting/Freezing Point:</b>	No information available	<b>Explosion Limits:</b>	No information available
<b>Vapor Pressure (mmHg):</b>	No information available		

## SECTION 10: STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	No information available
<b>CHEMICAL STABILITY:</b>	Stable under normal storage conditions
<b>HAZARDOUS REACTIONS:</b>	No information available
<b>CONDITIONS TO AVOID:</b>	No information available
<b>INCOMPATIBLE MATERIALS:</b>	No information available
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	No information available

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>ROUTES OF EXPOSURE:</b>	Eye contact, skin contact, ingestion, inhalation
<b>IMMEDIATE SYMPTOMS:</b>	Can cause irritation to the eyes, skin, mucus membranes, and the upper respiratory tract
<b>DELAYED SYMPTOMS:</b>	Chronic inhalation exposure may lead to allergic sensitization based on exposure level, duration, and susceptibility
<b>ACUTE TOXICITY:</b>	No information available
<b>EYE IRRITATION:</b>	May cause minor irritation
<b>SKIN IRRITATION:</b>	May cause minor irritation
<b>RESPIRATORY IRRITATION:</b>	May cause minor irritation
<b>SENSITIZATION:</b>	Inhalation of enzyme mist/dust may cause allergic respiratory reactions, including asthma, in susceptible individuals on repeated exposure
<b>GERM CELL MUTAGENICITY:</b>	No information available
<b>REPRODUCTIVE TOXICITY:</b>	Not expected to produce reproductive toxicity
<b>CARCINOGENICITY:</b>	Not classified a carcinogen by IARC, OSHA, or NTP

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## SECTION 12: ECOLOGICAL INFORMATION

<b>ECOLOGICAL INFORMATION:</b>	The preparation is believed not to be dangerous to the environment with respect to mobility, persistence and degradability, bio-accumulative potential, and aquatic toxicity
<b>Persistence / Degradability:</b>	Product is readily biodegradable
<b>Bioaccumulation / Accumulation:</b>	Not available
<b>Mobility:</b>	Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>WASTE DISPOSAL METHOD:</b>	Dispose in compliance with laws and regulations pertaining to this product in your jurisdiction
<b>CONTAMINATED PACKAGING:</b>	Empty containers should be taken to local recycling, recovery, or waste disposal

## SECTION 14: TRANSPORT INFORMATION

<b>HARMONIZED TARIFF CODE:</b>	3507.90.7000 (for Enzymes)
<b>UN NUMBER:</b>	Not classified
<b>UN PROPER SHIPPING NAME:</b>	Not classified
<b>TRANSPORTATION HAZARD CLASS:</b>	Not classified
<b>PACKING GROUP:</b>	Not classified
<b>TRANSPORT ENVIRONMENTAL HAZARD:</b>	Not classified
<b>TRANSPORT SPECIAL PRECAUTIONS</b>	Not classified
<b>MARPOL:</b>	Not classified

## SECTION 15: REGULATORY INFORMATION

<b>U.S. FEDERAL REGULATIONS:</b>	
TSCA (TOXIC SUBSTANCE CONTROL ACT):	All components are listed or exempted
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):	Not applicable
311/312 HAZARD CATEGORIES:	Not applicable
313 REPORTABLE INGREDIENTS:	Not applicable

## SECTION 16: OTHER INFORMATION

<b>PREPARATION INFORMATION:</b> White Labs, Inc.	<b>REVISION HISTORY DATE:</b> February 27, 2023
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