

# SAFETY DATA SHEET

# SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Product name:		TOYO	TA XyloAc	e®			
Product code:		N/A					
Description:				e liquid yeast			
Product use:			thanol proc		•		
Supplier name and ac	ddress		Lallemand Biofuels & Distilled Spirits				
		6120 V	6120 West Douglas Avenue				
		Milwa	Milwaukee, WI 53218				
Information telephone Emergency telephone		•	4) 393-041 ct your loca	0 al doctor or hospital			
ECTION 2- HAZARD IDE	INTIFICATION						
Classification of sul	etanco or mixtu						
Not a hazardous sub		-					
GHS Label elements			atements.				
NOL A HAZALUOUS SUD							
Hazards not otherwi	se classified or I	not covered	by GHS				
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Hazards not otherwi None		not covered	by GHS				
Hazards not otherwi None	OMPONENTS		- -				
Hazards not otherwi None	OMPONENTS		by GHS	LD50 & LC50	OSHA PEL	ACGIH TLV	
Hazards not otherwi None ECTION 3 – DATA ON C	CA		- -	LD <sub>50</sub> & LC <sub>50</sub> Not established	OSHA PEL Not established	ACGIH TLV Not established	
Hazards not otherwi None ECTION 3 – DATA ON C Name	CA visiae 68	\S #	% by Wt				
Hazards not otherwi None ECTION 3 – DATA ON C Name Saccharomyces cere ECTION 4 – FIRST AID N	CA Visiae 68	\ <u>S</u> # 876-77-7	% by Wt				
Hazards not otherwi None ECTION 3 – DATA ON O Name Saccharomyces cere ECTION 4 – FIRST AID N Emergency and Firs	CA Visiae 684 NEASURES	\S # 9 876-77-7	- <u>% by Wt</u> 20	Not established	Not established		
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SECTION 5 – FIRE FIGHTING MEASUR	RES	
Extinguishing media Suitable extinguishing media		Use appropriate medium for underlying cause of fire
Special hazards arising from subs	tance or mixture	None
Advice for firefighters		Wear self-contained breathing apparatus (SCBA) when exposed to confined or enclosed fires.
Further information		No data available
SECTION 6 – ACCIDENTAL RELEASE	MEASURES	
Personal precautions, protective equ emergency procedures Environmental precautions	ipment and	Use appropriate personal protective equipment as outlined in Section 8 Do not allow product to enter the environment
Methods and material for containment and cleaning up		In the event of a spill, clean area with disposable absorbent pads or sheets. Spilled or discarded yeast at an ethanol production facility should be disposed of by flushing into the beer-well where it can be thermally inactivated. Residual yeast can be inactivated by cleaning with a solution of 2 vol% household bleach (1:50 dilution) in water or a 1-2 % caustic solution.
Reference to other sections		For disposal see Section 13
SECTION 7 – HANDLING & STORAGE		
Precautions for safe handling	Section 8. Wash	closed when not in use. Wear protective equipment described in thoroughly after handling. Do not handle this material if you have r otherwise physical reaction to yeast.
Conditions for safe storage, including any incompatibilities	in use. Respiring	ration temperature of 33.8-40°F or 1-4°C. Keep containers closed when not yeast may naturally generate carbon dioxide. Ensure adequate ventilation where packaged yeast is stored. Over exposure to carbon dioxide may on.
SECTION 8- EXPOSURE CONTROLS /	PERSONAL PROTE	CTION
Control Parameters Appropriate Engineering controls Respiratory protection Skin protection Eye protection	Emergency eye use/handling. Not required unde Wear latex or othe	cupational exposure limits wash fountains should be available in the immediate vicinity of er normal conditions of use er impermeable gloves. th side shields or goggles
SECTION 9- PHYSICAL & CHEMICAL	PROPERTIES	
Physical state: Appearance: Odor: Freezing point: Melting point: pH:	Liquid Tan Mild savory odor Not determined Not determined No data available	

Not applicable.

Suspends in water

Partition coefficient: Viscosity: Solubility in water:



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#### SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possible hazardous reactions: Conditions to avoid: Incompatible materials Hazardous decomposition products: None known Stable under recommended storage conditions. None High temperatures None None

#### SECTION 11- TOXICOLOGICAL INFORMATION

Acute toxicity Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity single exposure Specific target organ toxicity repeated exposure No data available No data available No data available Possible allergic sensitization No data available No data available No data available No data available No data available

#### SECTION 12- ECOLOGICAL INFORMATION

Toxicity Persistence and degradability Bioaccumulation potential Mobility in soil Other adverse effects No data available No data available No data available No data available No data available

### SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with Federal, State and Local regulations. Yeast in liquid and solid wastes must be inactivated; this can be accomplished by thermal treatment at 176°F (80°C) for 2 minutes. Spilled or discarded yeast at an ethanol production facility should be disposed of by flushing into the beer-well where it can be thermally inactivated. Residual yeast can be inactivated by cleaning with a solution of 2 vol % household bleach (1:50 dilution) in water or a 1-2 % caustic solution.

### SECTION 14- TRANSPORT INFORMATION

Not a DOT, TDG (Canada) IMDG or IATA controlled material

## SECTION 15 - REGULATORY INFORMATION

This product does not meet the definition of a hazardous material given in the US Occupational Safety and Health Administration's Hazard Communication Standard.

### **SECTION 16– OTHER INFORMATION**

SDS Date of Preparation: February 2021

The information herein is based on current available data and is believed to be correct. No warranty, express or implied, is made regarding data accuracy, merchantability or hazards associated with product use. The user is responsible for determining product suitability, conditions of use and all associated hazards. Values listed in this document are not product specifications.