

## SAFETY DATA SHEET

**Product Name: Safoeno™ BC S103**  
**Product Number(s): 85255, 85610**

---

### SECTION 1: IDENTIFICATION

#### Product Identifiers

Product name : Safoeno™ BC S103  
Product Code(s) : 85255, 85610  
CAS Number : Not Applicable

#### Application of the Substance or Mixture

Product Use : Fermentation Aid  
Product Restrictions : No further relevant information available

#### Details of the Supplier of the Safety Data Sheet

Company Identification : Lesaffre Yeast Corporation  
Red Star Yeast Company, LLC  
7475 West Main Street  
Milwaukee, WI 53214  
1-877-677-7000

#### Emergency Telephone Number

Transport Emergency : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARD(S) IDENTIFICATION

#### Classification of the Substance or Mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not a hazardous substance or mixture.

#### GHS Label Elements

Not a hazardous substance or mixture.

#### Hazard(s) Not Otherwise Classified

(HNOC) or not covered by GHS : Material may cause slight irritation on prolonged or repeated contact. Do not handle this material if you have known allergies or otherwise physical reaction to yeast.

### SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Classification : Mixture  
Common Name/ Synonyms : *Saccharomyces bayanus*; Fermentation Yeast  
CAS Number : Not Applicable  
EC Number : Not Applicable

## SAFETY DATA SHEET

**Product Name: Safoeno™ BC S103**  
**Product Number(s): 85255, 85610**

---

### Hazardous Components

No ingredients are hazardous according to OSHA criteria or Canada's Workplace Hazardous Materials Information System (WHMIS).

No components need to be disclosed according to the applicable regulations.

## SECTION 4: FIRST-AID MEASURES

### Description of First Aid Measures

Eye Contact : Remove contact lenses at once. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical help if needed.

Skin Contact : Flush skin with plenty of water.

Ingestion : If victim is conscious and alert, rinse mouth with water as a precaution. Never give anything to an unconscious person.

Inhalation : Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical help immediately.

### Most Important Symptoms and Effects, both Acute and Delayed

No further relevant information available.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

No further relevant information available.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

Suitable Extinguishing Agents : Use dry chemical, carbon dioxide, water spray, or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

### Special Hazards Arising From the Substance or Mixture

Carbon oxides

### Advice for Firefighters

Protective Equipment : Wear self-contained breathing apparatus for firefighting if necessary.

Additional Information : No data available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Use proper personal protective equipment as indicated in Section 8.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# SAFETY DATA SHEET

**Product Name: Safoeno™ BC S103**  
**Product Number(s): 85255, 85610**

**Methods and Materials for Containment and Clean Up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to Other Sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection. For precautions, see section 2.

**Conditions for Safe Storage, Including Any Incompatibilities**

Store unopened in a cool (<80°F/ 27°C) area.

**Specific End Use(s)**

Apart from the use(s) mentioned in Section 1, no other specific uses are stipulated.

**SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION**

**Control Parameters**

**Components with Workplace Control Parameters**

Component	CAS No.	Value	Control Parameters	Basis
Sorbitan Monostearate	1338-41-6	TWA	10.000000 mg/m <sup>3</sup>	USA ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation, Eye irritation, Skin irritation Does not include steirates of toxic metals. Not classifiable as a human carcinogen, varies		
		TWA	10 mg/m <sup>3</sup>	USA ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation, Eye irritation, Skin irritation Does not include steirates of toxic metals. Not classifiable as a human carcinogen, varies		

**Appropriate Engineering Controls** : General industrial hygiene practice.

**Personal Protective Equipment**

**Eyes** : Wear 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.

**Skin** : Wear appropriate protective gloves to prevent skin exposure. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## SAFETY DATA SHEET

**Product Name: Safoeno™ BC S103**  
**Product Number(s): 85255, 85610**

---

Clothing : Wear appropriate protective clothing to prevent skin exposure.  
Respirators : Respiratory protection is not required. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if irritation or other symptoms are experienced.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

##### Appearance:

Form	: Powder
Color	: Light tan
Odor	: Typical of yeast
Odor Threshold	: No Data Available
pH	: No Data Available
Freezing/ Melting point	: No Data Available
Initial Boiling Point and Boiling Range	: No Data Available
Flash Point	: No Data Available
Evaporation Rate	: No Data Available
Flammability (solid, gas)	: No Data Available
Upper/Lower Flammability or Explosive Limits	: No Data Available
Vapor Pressure	: No Data Available
Vapor Density	: No Data Available
Relative Density	: No Data Available
Water Solubility	: Slightly
Partition Coefficient: n-octanol/water	: No Data Available
Auto-ignition Temperature	: No Data Available
Decomposition Temperature	: No Data Available
Viscosity	: No Data Available
Explosive Properties	: No Data Available
Oxidizing Properties	: No Data Available

#### Other Safety Information

No further relevant information available.

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

No Data Available

#### Chemical Stability

Stable under normal temperatures and pressures.

---

**Product Name: Safoeno™ BC S103**  
**Product Number(s): 85255, 85610**

---

### Possibility of Hazardous Reactions

No dangerous reactions known.

### Conditions to Avoid

No further relevant information available.

### Incompatible Materials

No further relevant information available.

### Hazardous Decomposition Products

No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute toxicity

LD50/ LC50 values that are relevant for classification

Component	: Sorbitan Monostearate
CAS No.	: 1338-41-6
LD50 Oral- Rat	: 31, 000 mg/kg
Inhalation	: No data available
Dermal	: No data available

#### Skin Corrosion/Irritation

Component	: Sorbitan Monostearate
CAS No.	: 1338-41-6
Skin- Rabbit	: Mild skin irritation

#### Serious Eye Damage/Eye Irritation

No Data Available

#### Respiratory or Skin Sensitization

Material may cause slight irritation on prolonged or repeated contact. Do not handle this material if you have known allergies or otherwise physical reaction to yeast.

#### Germ Cell Mutagenicity

No Data Available

#### Carcinogenicity

ACGIH	: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
IARC	: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SAFETY DATA SHEET

**Product Name: Safoeno™ BC S103**  
**Product Number(s): 85255, 85610**

---

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

Toxicity to Fish : No Information Found  
Toxicity to Other Aquatic Invertebrates : No Information Found

#### Persistence and Degradability

Biodegradability : No Data Available  
Biochemical Oxygen Demand (BOD) : No Data Available

#### Bioaccumulative Potential

No data available.

#### Mobility in Soil

No data available.

#### Results of PBT and vPvB Assessment

PBT : Not Applicable  
vPcB : Not Applicable

#### Other Adverse Effects

No further relevant information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Product

Dispose of in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

#### Contaminated Packaging

Dispose of container and unused contents in accordance with federal, state and local requirements.

### SECTION 14: TRANSPORTATION INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Regulator : Domestic (Land, DOT)  
Proper Shipping Name : Not Regulated  
Hazard Class : Not Regulated  
UN/NA : Not Regulated  
Packing Group : Not Regulated

---

## SAFETY DATA SHEET

**Product Name: Safoeno™ BC S103**  
**Product Number(s): 85255, 85610**

---

Regulator : International (Water, IMO / IMDG)  
 Proper Shipping Name : Not Regulated  
 Hazard Class : Not Regulated  
 UN/NA : Not Regulated  
 Packing Group : Not Regulated

Regulator : International (Air, ICAO / IATA)  
 Proper Shipping Name : Not Regulated  
 Hazard Class : Not Regulated  
 UN/NA : Not Regulated  
 Packing Group : Not Regulated

**SECTION 15: REGULATORY INFORMATION**

**SARA**

Section 302 Extremely Hazardous Substances : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 313 Specific Toxic Chemical Listings : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**TSCA (Toxic Substances Control Act)**

This product is for FDA regulated product use only.

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**State Right to Know Components**

Massachusetts : No components are subject to the Massachusetts Right to Know Act.

Pennsylvania	:	<u>Ingredient Name</u>	<u>CAS-No.</u>
		Sodium Monostearate	1338-41-6

New Jersey	:	<u>Ingredient Name</u>	<u>CAS-No.</u>
		Sodium Monostearate	1338-41-6

**Carcinogenic Categories**

EPA (Environmental Protection Agency): Substance is not listed.

TLV (Threshold Limit Value established by ACGIH) : Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) : Substance is not listed.

## SAFETY DATA SHEET

**Product Name: Safoeno™ BC S103**  
**Product Number(s): 85255, 85610**

---

**Additional Information**

Clean Air Act : This material does not contain any hazardous air pollutants.  
This material does not contain any Class 1 Ozone depletors.  
This material does not contain any Class 2 Ozone depletors.

Clean Water Act : None of the chemicals in this product are listed as Hazardous Substances under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
: None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

HMIS Rating (scale 0 – 4)

Health Hazard	: 0
Chronic Health Hazard	: 0
Flammability	: 0
Physical Hazard	: 0

NFPA Rating (scale 0 – 4)

Health Hazard	: 0
Fire Hazard	: 0
Reactivity Hazard	: 0
Special	: Not Applicable

**SECTION 16: OTHER INFORMATION**

**SDS Issue Date** : March 7, 2017

**SDS Revision Number** : Original

**Supersedes Issue Date** : Not Applicable

**Summary of Changes**

Revision No.	Changes
Original	<ul style="list-style-type: none"> <li>New SDS, removed from Technical Data Sheet</li> </ul>

**Disclaimer**

The information in this SDS was obtained from current and reliable sources. However the data is provided without any warrant, expressed or implied, regarding its correctness or accuracy. Since the use, handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability of loss, damage, or expense arising out of the product's improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various Federal, State or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.