

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

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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.

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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/m3 | USA ACGIH Threshold Limit Values (TLV) |
| | Remarks | Upper Respiratory Tract irritation, Eye irritation, Skin irritation Does not include stearates of toxic metals. Not classifiable as a human carcinogen, varies | | |
| | | TWA | 10 mg/m3 | USA ACGIH Threshold Limit Values (TLV) |
| | | Upper Respiratory Tract irritation, Eye irritation, Skin irritation Does not include stearates 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.

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| | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.

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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. |

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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

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| | |
|----------------------|-------------------------------------|
| 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. |

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Additional Information

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

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"> New SDS, removed from Technical Data Sheet |

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.