

# SAFETY DATA SHEET– Bio Reb M 90 (PCS-3018)

## SECTION 1 : IDENTIFICATION OF THE CHEMICAL AND THE SUPPLIER

**Product identifier** : Bio Reb M 90 (PCS-3018)  
**Trade Name** : Bio Reb M 90 (PCS-3018)  
**Product Use** : Sweetener  
**Restriction on use** : No Data  
**Company Name** : Purecircle Sdn Bhd  
**Company Address** : PT 23419, Lengku Teknologi, techpark@enstek,  
 71760 Bandar Enstek, Negeri Sembilan, Malaysia  
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## SECTION 2 : HAZARDS IDENTIFICATION

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According with The Hazard Communication Standards (HCS)(29 CFR 1910.1200(g))in the United States, CLASS Regulations 2013 in Malaysia and Regulation (EC) No1272/2008 [CLP] in Europe : Not classified

### LABEL ELEMENTS

**SIGNAL WORD** : Not applicable

**HAZARD STATEMENTS** : Not applicable

**SYMBOL** : Not applicable

**PRECAUTIONARY STATEMENTS** : Not applicable

### OTHER HAZARDS

#### FIRE AND EXPLOSION HAZARD:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. It is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces or building structural components. Keep away from all ignition sources including heat, sparks and flame.

#### POTENTIAL ACUTE HEALTH EFFECTS FROM OCCUPATIONAL EXPOSURE:

**Inhalation** Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust.

**Skin contact** Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers. No health effects known or anticipated.

**Eye contact** May cause slight mechanical irritation from acute exposure.

**Ingestion** No effects known or anticipated.

### SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Name	INS No	CAS No	Composition (%wt)	Classification
Rebaudioside M	960b	1220616-44-3	>90	NA

There are no additional ingredients present, which, within the knowledge of the supplier and in the concentrations applicable are classified as hazardous to health or the environment and, hence, require reporting in this section.

### SECTION 4 : FIRST AID MEASURES

<b>INHALATION</b>	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
<b>SKIN CONTACT</b>	Wash skin with soap and water.
<b>EYE CONTACT</b>	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
<b>INGESTION</b>	If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Most important symptoms/effects, acute and delayed :** NIL

**Indication of immediate attention and special treatment needed :** NIL

### SECTION 5 : FIRE FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure demand and full protective gear.

#### Suitable Extinguishing Media

Water spray, dry powder, carbon dioxide or media appropriate for surrounding fire.

#### Unusual Fire/Explosion Hazard

Use of water jet may cause explosive dust conditions.

#### Specific Protective Equipment and Precautions for Fire-Fighters

Wear self-contained breathing apparatus and full protective gear. Use water spray to cool fire exposed containers.

### **Additional Information**

Use spark-proof tools and explosion proof equipment. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

### **Procedures of personal precaution, protective equipment and emergency procedures**

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

### **Methods and material for containment and cleaning**

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Material has no known adverse effect of environment and is fully degradable.

## **SECTION 7 : HANDLING AND STORAGE**

### **Precaution for safe handling**

See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2017 Edition, and other related standards. Use with adequate ventilation. Minimize dust generation and accumulation; dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are disturbed.

All dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions and may require explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Bonding and grounding systems may be required.

Dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) should be designed to limit or prevent leakage of dust into the work area.

Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Routine housekeeping should be instituted to reduce dust accumulation.

Avoid dispersal of dust in the air; use vacuum or wet sweeping methods. Do not use compressed air to clean surfaces.

Keep away from all ignition sources including heat, sparks, and flame. Where dust accumulations occur use non-sparking tools.

### Condition for safe storage

Store in a cool dry place. Store in a tightly closed container/bag.

### Incompatibilities

No Data

## SECTION 8 : EXPOSURE CONTROLS & PERSONAL PROTECTION

### CONTROL PARAMETERS

Exposure limits	: Nuisance dust
OSHA PEL	: 15 mg/m <sup>3</sup> Total dust 5 mg/m <sup>3</sup> Respirable dust
ACGIH TLV	: 15 mg/m <sup>3</sup> Total dust 10 mg/m <sup>3</sup> Inhalable dust 5 mg/m <sup>3</sup> Respirable dust

### EXPOSURE CONTROLS

#### APPROPRIATE ENGINEERING CONTROLS

<b>Ventilation</b>	See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2017 Edition, and National Fire Protection Association 650, Standard for Pneumatic Conveying Systems for Handling Combustible Materials, 1997 Edition and other related standards.  Normal industrial hygiene measures should be sufficient for protection of employees from exposure to dusts. Local and mechanical exhaust is desirable when dumping bags.
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#### APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

<b>Eye protection</b>	Safety glasses are recommended.
<b>Emergency wash facilities</b>	Eye wash is recommended for conditions where dust generation is likely.
<b>Special protective clothing</b>	Not normally required.
<b>Gloves</b>	Not normally required. Use ordinary work gloves if dust dries skin.
<b>Respirator</b>	NIOSH approved N-95 dust respirator if working in situations that could generate large amounts of airborne dust.
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.  Discard contaminated clothing or wash thoroughly before reusing.

Ensure that eyewash stations and safety showers are close to the workstation location

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical form	Powder
Color	White or off -white
Odor	Characteristic
pH (concentration)	Data on specification sheet if available.
Boiling point	No data
Flash point	No data
Melting/freezing point	No data
Decomposition temperature	No data
Auto-ignition temperature	No data
Explosion properties	No data
Oxidising properties	No data
Vapour pressure	No data
Vapor density	No data
Relative density	No data
Bulk density	No data
Specific gravity	No data
Viscosity	No data
Water solubility	Sparingly soluble
Solubility (non aqueous)	No data
Partition coefficient	No data
Dissociation constant	No data
Evaporation rate	No data
Loss on drying	6.0% max

## SECTION 10 : STABILITY AND REACTIVITY

<b>REACTIVITY</b>	Stable
<b>CHEMICAL STABILITY</b>	Stable under normal conditions. Polymerization will not occur.
<b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	Not applicable

## CONDITIONS TO AVOID

Practices which produce dust or disperse finely divided dust in air.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Inhalation</b>	Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust.
<b>Ingestion</b>	No effects known or anticipated.
<b>Skin irritation</b>	Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers, or other drying effects. No health effects known or anticipated.
<b>Eye irritation</b>	May cause slight mechanical irritation from acute exposure.
<b>Skin sensitisation</b>	Not sensitizing
<b>Chronic toxicity</b>	Not known or anticipated
<b>Genetic toxicity</b>	Not known or anticipated
<b>Carcinogenicity</b>	Not classifiable as Carcinogen
<b>Reprotoxicity</b>	Not known or anticipated
<b>Specific effects</b>	Not applicable

## SECTION 12 : ECOLOGICAL INFORMATION

### TOXICITY

This product and its breakdown products are not known to be toxic to plant and animal life.

### PERSISTENCE/DEGRADABILITY

Readily biodegradable

### BIOACCUMULATIVE POTENTIAL

This product and its breakdown products are not fat-soluble, and do not accumulate in plant or animal tissue.

### MOBILITY IN SOIL

No Data

## OTHER ADVERSE EFFECTS

No Data

## SECTION 13 : DISPOSAL CONSIDERATIONS

Product is degradable foodstuff, no specific disposal considerations needed. However local waste disposal regulations may apply.

## SECTION 14 : TRANSPORTATION INFORMATION

**RID/ADR** Non-hazardous for road transport.

**IMDG** Non-hazardous for sea transport.

**IATA** Non-hazardous for air transport

**UN Number** Not Regulated

**UN Proper Shipping Name** Not Regulated

**Transport Hazard Class(es)** Not Regulated

**Packing Group** Not Regulated

**Environmental Hazards** Not Regulated

**Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code)** NA

**Special precautions, which a user needs to be aware of, or needs to comply with, in connection either within or outside their premises** Refer Section 7

## SECTION 15 : REGULATORY INFORMATION

### United States (USA)

The Hazard Communication Standards (HCS)(29 CFR 1910.1200(g))

### Europe (EU)

Regulation (EC) No1272/2008 [CLP]

### Malaysia

OSH (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Industry Code of Practice on Chemical Classification and Hazard Communication 2013

## SECTION 16 : OTHER INFORMATION

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall PureCircle be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PureCircle has been advised of the possibility of such damages.

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