



SAFETY DATA SHEET
Bioburden cassette, Trypticase Soy Agar
with Lecithin and Polysorbate + Tween
SDS0003 Rev B

1. IDENTIFICATION

Product Name	Bioburden cassette, Trypticase Soy Agar with Lecithin and Polysorbate + Tween (BTST cassette)
Recommended use of the chemical and restrictions on use	Microbiological culture medium
Identified Uses	
Restrictions on Use	Laboratory use only
Product Number	BTST-048
Company Identification	Rapid Micro Biosystems, Inc. 1001 Pawtucket Boulevard Lowell, MA 01854
Customer Information Number	978-349-3200
Emergency Telephone Number	978-349-3200
Issue Date	17 Aug 2018
Supersedes Date	30 April 2015

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION (continued on following page)

Hazard Classification

Skin Irritant 2
Eye Irritant 2A

Label Elements

None required.

Hazard Symbols & Signal Word



Signal Word: WARNING!

Hazard Statements

H315 – Causes skin irritation.
H319 – Causes serious eye irritation.

Precautionary Statements

Prevention

P101 – If medical advice is needed, have product container or label at hand.
P264 – Wash thoroughly after handling.
P280 – Wear protective gloves, protective clothing and eye protection.

Response

P302 + P352 - IF ON SKIN: wash with plenty of soap and water.

P333 + P313 – If skin irritation or rash occurs: get medical advice.

P305 + 351 + 338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 – If eye irritation persists: get medical attention.

P301 + P313 – IF SWALLOWED: Get medical attention.

Storage

None.

Disposal

None.

Other Hazards

None.

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity <10%

Acute dermal toxicity <10%

Acute inhalation toxicity <10%

Acute aquatic toxicity <10%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration
Polysorbate 80	9005-65-6	<10%
Sodium chloride	7647-14-5	10.8%

4. FIRST- AID MEASURES (continued on following page)

Description of necessary first-aid measures**Eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms persist.

Skin

Wash thoroughly with plenty of soap and water. If skin irritation occurs, seek medical attention.

Ingestion

Consult a medical professional.

Inhalation

Not an expected route of entry.

Most important symptoms/effects, acute and delayed

Aside from the information found under description of necessary first aid measures (above), Section 2.2, and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

None.

Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable (and unsuitable) Extinguishing Media

ABC Multipurpose dry chemical, alcohol-resistant foam, CO2 or water spray.

Specific hazards arising from the chemical

Nature of thermal decomposition products not known.

Special Protective Actions for Fire-Fighters

Wear fully protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Wear appropriate protective clothing.

Environmental Precautions

Prevent the material from entering drains or watercourses.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Dispose of as hazardous waste.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate protective equipment when handling. Avoid contact with skin and eyes. Do not eat, drink or smoke while handling this material. Obey expiration dates.

Conditions for safe storage

Store at 2-8°C away from heat and direct sunlight. Store away from oxidizing agents and other incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued on following page)

Control parameters

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of every workday.

Individual protection measures**Respiratory Protection**

Respiratory protection not required under normal use.

Skin Protection

Chemical resistant gloves.

Eye/Face Protection Safety glasses.

Body Protection

Impervious clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

	Physical State	Solid.
	Color	Light amber brown.
Odor		No data available.
Odor Threshold		No data available.
pH		7.3 ± 0.2
Density		No data available.
Boiling Range/Point (°C/F)		No data available.
Melting Point (°C/F)		No data available.
Flash Point (PMCC) (°C/F)		No data available.
Vapor Pressure		No data available.
Evaporation Rate (BuAc=1)		No data available.
Solubility in Water		No data available.
Vapor Density (Air = 1)		No data available.
VOC (g/l)		No data available.
Partition coefficient (noctanol/water)		No data available.
Viscosity		No data available.
Auto-ignition Temperature		No data available.
Decomposition Temperature		No data available.
Upper explosive limit		No data available.
Lower explosive limit		No data available.
Flammability (solid, gas)		No data available.

10. STABILITY AND REACTIVITY (continued on following page)**Reactivity**

No known reactivity.

Chemical Stability

Stable under recommended storage conditions.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to Avoid
Heat, high temperatures, contact with incompatible materials.

Incompatible Materials
Bases, heavy metal salts, strong oxidizing agents.

Hazardous Decomposition Products
Chlorine.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Available data indicates this product is not acutely toxic.

Specific Target Organ Toxicity (STOT) – single exposure
No data available.

Specific Target Organ Toxicity (STOT) – repeat exposure
No data available.

Serious Eye damage/Irritation
Cat. 2A – Causes serious eye irritation.

Skin Corrosion/Irritation
Cat. 2 – Causes skin irritation.

Respiratory or Skin Sensitization
Available data indicates this product is not expected to cause skin or respiratory sensitization.

Carcinogenicity
Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity
No data available.

Reproductive Toxicity
This product is not expected to possess reproductive toxicity in humans based on available data.
RTECS: WG2934000

Aspiration Hazard
Not an aspiration hazard.

12. ECOLOGICAL INFORMATION (continued on following page)

Ecotoxicity
No relevant studies identified.

Mobility in soil

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

The ecological effects have not been thoroughly investigated, but currently none have been identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated.
UN Proper Shipping Name	Not Regulated.
UN Class	Not hazardous goods.
UN Number	Not applicable.
UN Packaging Group	Not applicable.
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.
Environmental Hazards	None identified.

15. REGULATORY INFORMATION

United States TSCA Inventory

<u>Name</u>	<u>CAS-No.</u>
<i>Magnesium Chloride</i>	7487-88-9
<i>Polysorbate 80</i>	9005-65-6
<i>Sodium carbonate</i>	497-19-8
<i>Sodium chloride</i>	7647-14-5

Canada DSL Inventory

Components of this product have not been verified for inclusion on the Domestic Substance List (DSL).

California Proposition 65

This product does not contain any materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

CAS#: Chemical Abstracts Service Number

IARC: International Agency for Research on Cancer

LD50: Lethal Dose 50%

N/A: Not Applicable

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

VOC: Volatile Organic Compounds

Revision Date: 17 Aug 2018

Replaces: 30 April 2015

RAPID MICRO BIOSYSTEMS, INC. URGES EACH OF OUR CUSTOMERS, AND ANY OTHER RECIPIENT OF THIS SDS, TO STUDY IT CAREFULLY AND CONSULT EXPERTS, AS NECESSARY OR APPROPRIATE, TO UNDERSTAND THE DATA CONTAINED IN THIS SDS AND ANY HAZARDS ASSOCIATED WITH THE PRODUCT. THE INFORMATION HEREIN IS BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, IS GIVEN, AS TO THE PRODUCT'S QUALITY. NOR DOES THIS SDS CREATE ANY RIGHTS OR LICENSE, EXPRESS OR IMPLIED, TO INTELLECTUAL PROPERTY AND TRADE SECRETS PERTAINING TO THE PRODUCT. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER BETWEEN VARIOUS LOCATIONS. IT IS THE RESPONSIBILITY OF EACH OF OUR CUSTOMERS, AND ANY OTHER RECIPIENT OF THIS SDS, TO ENSURE THAT ITS ACTIVITIES COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, CODES AND ANY OTHER LEGAL OBLIGATIONS. THE INFORMATION PRESENTED IN THIS SDS PERTAINS ONLY TO THE PRODUCT AND USES SPECIFIED ABOVE. GIVEN THE CONDITIONS AND METHODS OF ACTUAL USE OF THE PRODUCT ARE BEYOND OUR CONTROL, IT IS EACH CUSTOMER'S, AND ANY OTHER RECIPIENT'S, DUTY TO DETERMINE THE SPECIFIC CONDITIONS NECESSARY FOR THE SAFE USE OF THIS PRODUCT. WE ARE NOT AND CANNOT BE RESPONSIBLE FOR SDSS OBTAINED FROM ANY SOURCE OTHER THAN OURSELVES. IF YOU HAVE OBTAINED AN SDS FROM ANY SOURCE OTHER THAN RAPID MICRO BIOSYSTEMS, OR IF YOU ARE NOT SURE THAT THE SDS YOU HAVE IS CURRENT, PLEASE CONTACT US FOR THE MOST CURRENT VERSION.