



SAFETY DATA SHEET

Issuing Date: 08/17/2012

Revision Date: 03/14/2016

Revision Number: 2

1. IDENTIFICATION

Product Identifier

Product Name: Tet System Approved FBS

Other means of identification

Product Code(s): 631106 or 631107

Synonyms: No information available

Recommended use of the chemical and restrictions on use

Recommended Use: For research use only. Not for use in diagnostic procedures.

Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier: USA:
Clontech Laboratories, Inc.
A Takara Bio Company
1290 Terra Bella Avenue
Mountain View, CA 94043
Phone: 800.662.2566/888.251.6618
Web: www.clontech.com

Emergency telephone number

Emergency Telephone: In case of emergency, call PERS (Professional Emergency Resource Services) at 1-800-633-8253 (US) or 801-629-0667 (International)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Label elements

Emergency Overview

Appearance: Clear amber to dark reddish amber

Physical State: Liquid

Odor: No information available

Precautionary Statements - Prevention

Not applicable

Precautionary Statements - Response

Not applicable

Precautionary Statements - Storage

Clontech Laboratories, Inc.
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United States/Canada 800.662.2566
Asia Pacific +1.650.919.7300
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Japan +81.(0)77.543.6116

Not applicable

Precautionary Statements - Disposal

Not applicable

Hazards not otherwise classified (HNOC)

Not applicable

Other information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance / Mixture**

The product contains no substances, which at their given concentrations, are considered to be hazardous to health.

4. FIRST AID MEASURES**Description of first aid measures**

General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Move to fresh air.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Most important symptoms and effects No information available

Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray. Carbon dioxide (CO₂). Foam. Dry Chemical.

Unsuitable Extinguishing Media

No information available.

Specific hazards arising from the chemical

The product itself does not burn.

Explosion data

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

Environmental Precautions

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

Methods and material for containment and cleaning up

Methods for Containment Keep in suitable, closed containers for disposal.

Methods for Cleaning Up Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep containers tightly closed in a dry, cool, and well-ventilated place.

Incompatible products None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. Safety glasses with side shields.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots. Impervious gloves.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Solution	Odor	No information available
Color	Clear amber to dark reddish amber	Odor Threshold	No information available
pH	No information available		
Melting point/freezing point	No information available		
Boiling Point/Range (°C)	No information available		
Flash Point (°C)	No information available		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Relative density	No information available		
Water Solubility	No information available		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition Temperature			
Decomposition Temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive Properties	No information available		
Oxidizing Properties	No information available		

Other Information

Softening point	No information available
VOC Content	No information available

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

Hazardous Reactions	None under normal processing
Hazardous Polymerization	Hazardous polymerization does not occur

Conditions to Avoid

No dangerous reaction known under conditions of normal use.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

None under normal use.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Inhalation	May be harmful by inhalation.
Eye Contact	May cause eye irritation with susceptible persons.
Skin Contact	May cause skin irritation in susceptible persons.
Ingestion	May be harmful if swallowed.

Product does not present an acute toxicity hazard based on known information.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Mutagenic Effects No information available.
Carcinogenicity No information available.
Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target organ effects No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Persistence and degradability

No information available.

Bioaccumulation

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not classified as dangerous goods.
ICAO/IATA Not classified as dangerous goods
IMDG/IMO Not classified as dangerous goods

15. REGULATORY INFORMATION

<u>International Inventories</u>	For research use only
TSCA	–
DSL/NDSL	–
EINECS/ELINCS	–
ENCS	–
IECSC	–
KECL	–
PICCS	–
AICS	–

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health Hazard 0	Flammability 0	Instability 0	Physical and chemical hazards –
<u>HMS</u>	Health Hazard 0	Flammability 0	Physical hazard 0	Personal protection X
Revision Date	03/14/2016			
Revision Note	No information available			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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End of Safety Data Sheet