

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: FAM + HEX Calibrator Set

Catalog Number: S0141

Manufacturer/Supplier: Chai Biotechnologies
3206 Scott Blvd
Santa Clara, CA 95054

Phone: 1- (650) 779-5577

For research use only! Not intended for human or animal diagnostic or therapeutic uses.

2. HAZARD IDENTIFICATION

Component	Description	Safety Information
FAM Calibrator	5-FAM modified oligodeoxyribonucleic Acid (lyophilized)	Not a hazardous substance or mixture.
HEX Calibrator	6-HEX modified oligodeoxyribonucleic Acid (lyophilized)	Not a hazardous substance or mixture.
Reconstitution Buffer	Liquid mixture containing Tris (hydroxymethyl) aminomethane and Glycerol	Not a hazardous substance or mixture. May cause mild irritation to the skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS RECONSTITUTION BUFFER

Name	CAS No.	Weight %	Formula	Molecular Weight
Tris (hydroxymethyl) aminomethane	77-86-1	<2%	$\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$	121.14
Glycerol	56-81-5	5%	$\text{C}_3\text{H}_8\text{O}_3$	92.09

4. FIRST AID MEASURES

A	Skin Contact	Wash off immediately with plenty of water. If symptoms occur, obtain medical advice.
B	Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.
C	Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
D	Inhalation	Move person to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
E	Notes to Physician	Treat symptomatically.

5. FIRE FIGHTING MEASURES

A	Extinguishing method	Ordinary extinguishing procedures can be used in case of fire.
B	Extinguishing agent	Water, powder, CO ₂ , or bubble foam can be used.
C	Unusual fire and explosion hazards	Not available.

6. ACCIDENTAL RELEASE MEASURES

A	Personal precautions	Avoid breathing vapors, mist or gas. Use personal protection equipment.
B	Environmental precautions	Prevent product from entering drains.
C	Methods for cleaning up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

A	Handling	Avoid contact with skin and eyes. Always wear recommended Personal Protective Equipment.
B	Storage	Store protected from light and in properly labeled containers. Store away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

A	Substance	FAM and HEX Calibrator; Reconstitution Buffer
B	Control parameter	Prevent product from entering drains.
C	Personal protective equipment	Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Respiratory protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Eye protection: Safety glasses with side-shields conforming to EN166 Use

equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

	Reconstitution Buffer
Appearance (physical state, color etc.)	Colorless liquid
Odor	No information available
Odor threshold	No information available
pH	8.6
Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Solubility	No information available
Partition Coefficient	No information available
Relative Density	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

10. STABILITY AND REACTIVITY

	Reconstitution Buffer
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Generates CO ₂ when burned
Conditions to avoid (e.g. static discharge, shock or vibration)	Strong Oxidizing agents
Incompatible materials	No Information available
Hazardous decomposition products	No Information available

11. TOXICOLOGICAL INFORMATION OF COMPONENTS

	FAM and HEX Calibrator; Reconstitution Buffer
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	No Information available
Symptoms related to the physical, chemical and toxicological characteristics	No Information available
Delayed and immediate effects and chronic effects from short and long term exposure	No Information available
Numerical measures of toxicity (such as acute toxicity estimates)	No Information available

Acute Toxicity for Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tris (hydroxymethyl) aminomethane	5900 mg/kg (Rat)	Not listed	Not listed
Glycerol	LD50 = 12600 mg/kg (Rat)	LD50 > 10 g/kg (Rabbit)	LC50 > 570 mg/m3 (Rat) 1 h

12. ECOLOGICAL INFORMATION

	FAM and HEX Calibrator; Reconstitution Buffer
Ecotoxicity (aquatic and terrestrial, where available)	No Information available
Persistence and degradability	No Information available
Bioaccumulative potential	No Information available
Mobility in the soil	No Information available
Other adverse effects	No Information available

13. DISPOSAL INFORMATION

Dispose of contents/containers in accordance with local regulations.

14. TRANSPORT INFORMATION

A	UN number	None
B	UN proper shipping name	No dangerous good in sense of these transport regulations
C	Transport hazard class	None
D	Packing group	None
E	Environmental hazards (e.g.:	None

Marine pollutant)
F Special precautions for user None

15. REGULATORY INFORMATION

No chemicals in this material are subject to the reporting requirements.

16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all-inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"