



MATERIAL SAFETY DATA SHEET

Authorization date: 09/17/13
Revision date: 01/22/14
Revision: 001

1. COMPANY AND PRODUCT IDENTIFICATION

Product Name: Linearity FD Cardiac Markers, Siemens Centaur
Product Number: K804M
Manufacturer: Aalto Scientific, Ltd.
1959 Kellogg Avenue
Carlsbad, CA 92008, USA
Phone No.: 760-431-7922
Emergency Phone No.: 1-800-748-6674

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	OSHA PEL:	OSHA STEL:
Human Serum	N/A	99-100%	N/A	N/A
Sodium Azide	26628-22-8	<0.1%	N/A	N/A

3. HAZARD IDENTIFICATION

Emergency Overview:

Does not meet EU, OSHA or WHMIS criteria for hazardous materials.
Contains anti-microbial materials that could be toxic in large doses.
Contains material that may be of Human origin and should be considered potentially infectious

NFPA Ratings: Health ☒ 1 Flammability ☐ 0 Reactivity ☐ 0 Special-PB* ☒ 1
*PB – Potential Bio-hazard

Principle routes of exposure:

Inhalation:

Ingestion, inhalation, skin and/or eye contact

Ingestion:

May cause irritation of respiratory tract

Skin Contact:

May cause gastrointestinal irritation, nausea, vomiting and diarrhea

Eye contact:

Substance may cause slight skin irritation

May cause irritation

4. FIRST AID MEASURES

Inhalation:

Consult a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

Ingestion:

Call a physician. Do not induce vomiting without medical advice.

Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call physician.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for 15 minutes

MATERIAL SAFETY DATA SHEET

5. FIRE – FIGHTING MEASURES

Extinguishing Media: Use dry chemical, CO₂, water spray or "alcohol" foam.
Protective Equipment for Firefighters: In the event of fire, wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use universal precautions (gloves, goggles, and face shields) during clean up procedures
Environmental Precautions: Contain spill to prevent migration
Spill and Leak Precautions: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations

7. HANDLING AND STORAGE

Handling: Protect from contamination. Wear personal protective equipment. For human sours material, handle as if contains infectious material
Storage: Keep containers dry and lightly closed to avoid moisture absorption and contamination

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment:

Respiratory protection: Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary
Hand protection: Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly
Skin and Body protection: Wear appropriate body protection to prevent body contact
Eye protection: Wear appropriate eye protection to prevent eye contact
Hygiene measures: When using, do not eat, drink or smoke. Keep away from food and drink. Keep away tobacco products. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice for diagnostics

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Boiling Point: No information available
Melting Point: No information available
PH: Neutral
Flash Point: No information available
LEL (%): Not determined
UEL (%): Not determined

MATERIAL SAFETY DATA SHEET

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Hazardous Incompatibilities/Decomposition:	Thermal decomposition can lead to release of irritating gases and vapors. Metals and metallic compounds: Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds
Conditions to avoid:	Keep away from incompatible material
Materials to avoid:	Incompatible with strong acids and bases

11. TOXICOLOGICAL INFORMATION

Toxicity data for hazardous Ingredients:	Sodium Azide LD50/LC50: 20 mg/kg Dermal Rabbit 27 mg/kg Oral Mouse 27 mg/kg Oral Rat
Primary Routes of Exposure:	ACGIH STEL: 0.11 ppm Ceiling. The most likely routes of exposure are skin and eye contact and inhalation.
Potential Effects of Acute Exposure:	Material may be absorbed through the skin if skin is raw or damaged
Potential Effects of Chronic Exposure:	This product contains materials of human origin and should be considered as potentially capable of transmitting infectious diseases
Symptoms of Overexposure:	Effects are similar to those for acute exposure
Carcinogenicity:	No specific symptoms identified
Other effects:	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I
Conditions aggravated by Exposure:	None identified

12. ECOLOGICAL INFORMATION

Bio-accumulation:	No data available
Aquatic toxicity:	Sodium Azide: LC50 daphnia pulex 4.2mg/L/96 hr; LC50 rainbow trout 0.8-1.6 mg/L/96 hr
Eco-toxicity effects:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.



MATERIAL SAFETY DATA SHEET

14. TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IATA, US DOT, European ADR or Canadian TDG

15. REGULATORY INFORMATION

U.S. Federal Regulations:

This Product does not contain any chemicals currently listed on the Section 302/312, SARA Title III above the OSHA de minimis concentration.

**U.S. CERCLA/SARA/TSCA
Regulatory Information:**

This product does not contain any chemicals currently listed with a CERCLA RQ above the OSHA de minimis concentration.

**U.S. Clean Water Act (CWA)/
California Proposition 65**

This product contains trace amounts of the following substances known to the State of California to cause Cancer and/or reproductive harm: None

16. OTHER INFORMATION

Reason for revision: N/A

References: N/A

Additional advice: N/A

Prepared by:

Leslie Brown
Aalto Scientific, Ltd., Department of Quality Assurance
MSDS Contact: 760-431-6942 / ext. 122

Approved by:

[Signature]
Aalto Scientific, Ltd., Safety Committee Officer

The information, data and recommendations contained herein are based upon information believed by Aalto Scientific, after reasonable investigation and research, to be accurate; however, Aalto Scientific does not warrant the accuracy of the information. The information should be used only as a guide. All materials and mixtures may present unknown hazard and should be used with caution. When necessary or appropriate, independent opinions regarding the risk of handling or exposure should be obtained from trained professionals. Aalto Scientific, shall not be held liable for any damage resulting from handling or from contact with the above product.

END OF SAFETY DATA SHEET