SAFETY DATA SHEET (SDS)

Revision Date: 2021-03-29

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	**CATALOG #**
Apo B, R-1	KAI-004 (R-1) or KAI-024 (R-1)

Synonyms: Apolipoprotein B, R-1

Intended Use: For the quantitative determination of human Apo B (Apolipoprotein B) in serum by immunoturbidimetric *in vitro* assay.

MANUFACTURER INFORMATION

Manufacturer: KAMIYA BIOMEDICAL COMPANY

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U.S.A.

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2. HAZARDS IDENTIFICATION

GHS Classification:	Skin corrosion/irritation: Category 3 Hazardous to the aquatic environment - acute hazard: Category 3
Hazard Symbol:	None
Signal Word:	None
Hazard Statements:	H316 – Causes mild skin irritation H402 - Harmful to aquatic life
Precautionary Statements:	Avoid release to the environment. If skin irritation occurs: Get medical advice/attention. Dispose of contents / container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Single substance or Mixture: Mixture

Ingredient	CAS #	Amount
Sodium Azide	26628-22-8	< 0.1 %
Polyoxyethylenealkylether	84133-50-6	2.0 %
Tris(hydroxymethyl)aminomethane	77-86-1	1 - 5%

4. FIRST-AID MEASURES

Inhalation:	Get fresh air. If experiencing difficulty breathing, obtain medical attention.
Skin Contact:	Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use. In cases of redness or itching, get medical attention.
Eye Contact:	Rinse eyes immediately with water for several minutes with eyelids open. Remove contact lenses, if present and easy to do. Repeat rinsing. Get medical attention.
Ingestion:	If conscious, wash out mouth thoroughly with water then drink 1-2 glasses of water. Get medical attention. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:	No restrictions
Specific Hazards:	No fire or explosion hazards. Packaging material will burn in a fire.
Special Protective Equipment:	Wear self-contained breathing apparatus and protective suit, if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear proper protective equipment to avoid adhering to skin.
Environmental Precautions:	Do not wash away into sewers, watercourse, or rivers. If material has entered surface drains, it may be necessary to inform local authorities.
Methods and Materials for Containment and Cleaning Up:	After absorbing liquid with absorbent material e.g. cotton, wool or paper towel, flush the spill site with plenty of water. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Storage:	Store between +2 and +8 degrees C, tightly closed.
Warning:	This material contains < 0.1 % sodium azide as a preservative. Sodium Azide forms an explosive compound by contact with lead and copper plumbing. Flush with copious amounts of water.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	None
Eye Protection:	Protective glasses
Hand Protection:	Protective gloves. Wash hands after use.
Skin Protection:	Wear suitable, impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Colorless
Odor / Odor Threshold:	Odorless
pH:	7.55 - 7.65 (at 25°C)
Melting Point / Freezing Point:	No information available
Initial Boiling Point and Boiling Range:	No information available
Flash Point:	Not applicable
Evaporation Rate:	No information available
Upper / Lower Flammability or Explosive Limits:	No information available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	No information available
Solubility(ies):	Miscible in water
Auto-ignition:	Product is not self-igniting
Decomposition Temperature:	No information available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Hazardous Reactions:	Sodium Azide forms an explosive compound by contact with metals.

11. TOXICOLOGICAL INFORMATION

This product is a mixture that contains very low concentrations of the following substances.
Here are details for the substances in pure form.

Sodium Azide	
Acute Toxicity:	Oral LD50: 45 mg/kg (Rat) Dermal LD50: 20 mg/kg (Rabbit) Inhalation LC50: N/A
Skin Irritation / Corrosion:	No information available
Serious Eye Damage / Eye Irritation:	No information available
Respiratory or Skin Sensitization:	No information available
Germ Cell Mutagenicity:	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:	Blood forming system, cardiovascular system (by inhalation), blood system, autonomic nervous system, blood (by inhalation)
Aspiration Hazard:	No information available
CMR Effects:	No information available

Polyoxyethylenealkylether	
Acute Toxicity:	Oral LD50: 18,000 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rat)

Tris(hydroxymethyl)aminomethane	
Acute Toxicity:	Oral LD50: 5,900 mg/kg (Rat)
Skin Irritation / Corrosion:	No information available
Serious Eye Damage / Eye Irritation:	No information available
Respiratory or Skin Sensitization:	No information available
Germ Cell Mutagenicity:	No information available
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible, or confirmed human carcinogen.
Reproductive Toxicity:	No information available
STOST - Single Exposure:	Inhalation – May cause respiratory irritation.
STOST - Repeated Exposure:	No information available
Target Organ Effects:	Blood forming system, cardiovascular system (by inhalation), blood system, autonomic nervous system, blood (by inhalation)
Aspiration Hazard:	No information available
Potential Health Effects:	Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Ingestion: May be harmful if swallowed. Skin: May be harmful if absorbed through skin. Causes skin irritation.
Additional Information:	RTECS: TY2900000

12. ECOLOGICAL INFORMATION

Toxicity:	Sodium azide: ErC50 348 µg/L/96h (*Pseudokirchneriella subcapitata*)
Persistence and Degradability:	No information available
Bioaccumulative Potential:	Sodium Azide: Harmful to aquatic life with long lasting effects.
Mobility in Soil:	No information available
Hazard to the Ozone Layer:	No information available

13. DISPOSAL CONSIDERATIONS

Product:	The product has to be disposed of in accordance with local regulations. Do not wash away into surface water or sanitary sewer systems.
Contaminated Packaging:	After washing with water, the empty containers should be taken to an approved waste handling site for disposal.

14. TRANSPORT INFORMATION

This product is considered to be non-hazardous for transport.

UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A

15. REGULATORY INFORMATION

Regulatory information with regard to this preparation in your country or region should be examined on your own responsibility.

16. OTHER INFORMATION / DISCLAIMER

This product is for *in vitro* use only. It is not to be used internally in humans or animals.

The information, data, and recommendations contained herein are based upon information believed by KAMIYA BIOMEDICAL COMPANY (KBC) to be accurate, but does not purport to be all-inclusive and shall be used only as a guide. KBC neither warrants the accuracy of this information nor assumes any legal responsibility in connection with its dissemination. KBC shall not be held liable for any damage resulting from handling or from contact with the above product.

It is the user's responsibility to determine the suitability of this information and the adoption of necessary safety precautions. All materials and mixtures may present unknown hazards 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.

We reserve the right to revise this document periodically, as new information becomes available.