

SAFETY DATA SHEET (SDS)

Revision Date: 2019-03-21

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

UIBC, R-1

CATALOG

KAI-300 (R-1) or KAI-301 (R-1)

Synonyms: Unsaturated Iron Binding Capacity, R-1

Intended Use: For the quantitative determination of Unsaturated Iron Binding Capacity (UIBC) in serum.

MANUFACTURER INFORMATION

Manufacturer: KAMIYA BIOMEDICAL COMPANY


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U.S.A.

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Website: www.k-assay.com

2. HAZARDS IDENTIFICATION

GHS Classification:	Eye damage / irritation: Category 2 Hazardous to the aquatic environment - acute hazard: Category 3
Hazard Symbol:	
Signal Word:	Warning
Hazard Statements:	H319 - Causes serious eye irritation H402 - Harmful to aquatic life
Precautionary Statements:	Wear eye protection / face protection. IF IN EYES: Rinse eyes immediately with water for several minutes with eyelids open. Remove contact lenses, if present and easy to do. Repeat rinsing. If eye irritation persists, get medical advice / attention. Avoid release to the environment. Dispose of contents / container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Single substance or Mixture: Mixture

Ingredient	CAS #	Amount
<i>N,N</i> -Dimethyldodecan-1-amine oxide	1643-20-5	< 1.0 %

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.

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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:	Cap tightly when not being used.

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:	No information available
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:	None.

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.

<i>N,N</i>-Dimethyldodecan-1-amine oxide	
Acute Toxicity:	Oral LD50: 3625 mg/kg (Rat, female)
Skin Irritation / Corrosion:	Undiluted: 4.5 hours closed patch test (OECD 404) - Category 2
Serious Eye Damage / Eye Irritation:	Undiluted, Draize Method - Category 1
Respiratory or Skin Sensitization:	Respiratory Sensitization: No information available Skin Sensitization: GPMT method: Negative (Guinea Pig)
Germ Cell Mutagenicity:	Ames Test (TA98, TA100, WP2try-): Negative. DNA Repair Test (Rec-assay, Bacillus subtilis H17, M45): Negative. Morphological transformation induction ability using hamster fetal cells: Negative.
Carcinogenicity:	No effect observed in rats, up to 0.2%, food aminstration for 104 weeks. No effect observed in mice, up to 0.26%, continuous application for 104 weeks (3 times/week).
Reproductive Toxicity:	No reproductive toxicity observed.
STOST - Single Exposure:	No information available
STOST - Repeated Exposure:	No information available
Target Organ Effects:	No information available
Aspiration Hazard:	No information available
CMR Effects:	No information available

12. ECOLOGICAL INFORMATION

Toxicity:	<i>N,N</i> -Dimethyldodecan-1-amine oxide: LC50 (96h) 47 mg/L (Fish: <i>Himedaka</i>) LC50 (48h) 3.9 mg/L (Crustacea: <i>Daphnia magna</i>) LC50 (0-72h) 0.14 mg/L (Algae: <i>Desmodesmus subspicatus</i>)
Persistence and Degradability:	<i>N,N</i> -Dimethyldodecan-1-amine oxide: BOD biodegradation rate: 84% DOC biodegradation rate: 100%
Bioaccumulative Potential:	No information available
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.