Material Safety Data Sheet
MSDS for S-ATT, CE IVD

Compiled According to Directive 91/155/EEC and Amendment

Section 1: **Product and Company Information**
Product Name: **SHIKARI® S-ATT ELISA KIT**
Product Code: **TR-ATRASv1**

Intended Use: Enzyme immunoassay for the qualitative determination of antibodies to Trastuzumab (Herclon®, Herceptin®) in serum and plasma

Manufacturer: Matriks Biotek Laboratories Ltd. Sti.

Address: Gazi Üniversitesi Teknoplaza Binası, No: BZ-17 Golbası, Ankara, TÜRKİYE

Emergency: Telephone: +90 (312) 485 42 94 (available Mon-Fri 9 00 am to 5 pm, GMT+2)
Fax: +90 (312) 485 11 87

Section 2: **Composition**
Substances present in this product which may present a health hazard:

Materials containing Sodium Azide

1 x 0.25 ml Reactive Control (RCTV CNTR)
Ready-to-use. Contains Trastuzumab reactive antibody, bovine serum, stabilizers and < 15mM sodium azide.

1 x 0.5 ml Negative Control (NEG CNTR)
Ready-to-use. Contains human serum, stabilizers and < 15mM sodium azide.

1 x 12 mL Assay Buffer (ASSAY BUF)
Blue colored. Ready to use. Contains proteins, RF blockers, and < 15 mM sodium azide.

1 x 12 mL Peroxidase Conjugate (POD CONJ)
Red colored. Ready to use. Contains peroxidase (POD) conjugate, RF blockers, stabilizer and preservatives.

1 x 12 mL TMB Substrate Solution (TMB SUBS)
Ready to use. Contains TMB.

1 x 12 mL TMB Stop Solution (TMB STOP)
Ready to use. 1 N HCl

1 x 50 mL Wash Buffer, Concentrate, 20x (WASHBUF CONC)
Contains Buffer with Tween 20.

2 x1 Adhesive Film
For covering of Microtiter Plate during incubation.

TMB STOP
CAS No. EC No. Chemical Name Concentration Symbol R-Phrases
26628-22-8 247-852-1 Sodium azide 0.1% T+ R21 R26 R28
R32 R50 R53

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Section 3: **Hazards Identification**

(Emergency overview) Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.

HMIS rating
Health: 0
Flammability: 0
Reactivity: 1

NFPA rating
Health: 0
Flammability: 0
Reactivity: 1

For additional information on toxicity, please refer to section 11.

Section 4: **First-Aid Measures**

(Oral exposure) If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

(Inhalation exposure) If inhaled, remove to fresh air. If not breathing give artifiicial respiration. If breathing is difficult, give oxygen.

(Dermal exposure) In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

(Eye exposure) In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5: **Fire Fighting Measures**

(Explosion hazards) Azide reacts with many heavy metals such as lead, copper, mercury, silver, gold to form explosive compounds. Çopper and lead azides are more sensitive than nitroglycerine. Azide reacts with metal halides to give a range of metal azide halides, many of which are explosive. Incompatible with chromyl chloride, hydrazine, bromine, carbon disulfide, dimethyl sulfate, dibromomalonitrile.

(Autoignition temp)
N/A
Flammability
N/A

(Extinguishing media)
Suitable: water spray, carbon dioxide, dry chemical powder or appropriate foam.

(Firefighting)
Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific hazard(s): Emits toxic fumes under fire conditions.

Section 6: **Accidental Release Measures**

[Procedure(s) of personal precaution(s)] Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

[*Methods for cleaning up)* Spilled material should be carefully wiped up or moistened with water and removed. Ventilate area and wash spill site after material pickup is complete.

Section 7: **Handling and Storage**

(Handling)
User exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Section 8: **Exposure Controls/Personal Protection**

(Personal protective equipment)
Respiratory: Use respirators and components tested and approved under appropriate government standards such as niosh (us) or cen (eu). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type n100 (us) or type p3 (en 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

General hygiene measures wash thoroughly after handling. Wash contaminated clothin before reuse.

Section 9: **Physical and Chemical Properties**
Appearance and odor liquid

Section 10: **Stability and Reactivity**
Stable

Materials to avoid: Dimethyl sulfate is incompatible with sodium azide, acid chlorides, halogenated solvents. Avoid contact with metals. Avoid contact with acid. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.

Sodium chloride: Avoid strong oxidizing agents and acids

Hazardous decomposition products: Nature of decomposition products is unknown

Hazardous polymerization: Will not ocur

Section 11: **Toxicological Information**
(Route of exposure)

Skin contact: May cause skin irritation.

Skin absorption: May be harmful if absorbed through the skin.

Eye contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

(Signs and symptoms of exposure) Many azides cause a fall in blood pressure and some inhibit enzyme action. Laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: **Ecological Information**
Data not yet available

Section 13: **Disposal Considerations**
Appropriate method of disposal of substance or preparation contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14: **Transport Information**
DOT
Proper shipping name: None
Non-hazardous for transport: This substance is considered to be non-hazardous for transport.

IATA
Non-hazardous for air transport: Non-hazardous for air transport.

Section 15: **Regulatory Information**
Not available.

Section 16: **Other Information**
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Manufacturer shall not be held liable for any damage resulting from handling from contact with the above product.