SAFETY DATA SHEET

EC Regulation No. 1907/2006 (REACH) modified with 2015/830/UE

Doc. N° VR82006 SSE rev.1
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1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product number: **VR82006**
Product name: **HAV IgG / IgM CARD**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses **Immunochromatographic rapid test on membrane for the simultaneous detection and differentiation of IgG and IgM antibodies to Hepatitis A virus (HAV) in human serum, plasma and whole blood specimen**

1.3 Details of the supplier of the safety data sheet

Company **Mascia Brunelli S.p.A.**
Viale Monza 272, 20128 Milano, Italy.
Tel.: 0039 02 25209.1
Fax: 0039 02 2576428
E-mail: mktg@masciabrunelli.it

1.4 Emergency telephone number

Emergency Phone 0039 02 66101029 (Centro Antiveleni Niguarda Ca' Granda – Milano)

PRODUCT DESCRIPTION: the kit contain the follow reagents:

1.	Immunochromatographic Strip: test membrane ; silica gel dessiccant 0,5 g; plastic dropper on sealed pouch
2.	extraction buffer/sample diluent: 20 mM Phosphate buffer, pH 7.2-7.4, with 0.1% of sodium azide

2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards – none

3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Individually sealed pouch: One strip packed in a plastic cassette; 0,5 g silica gel dessicant; one plastic dropper
Sample Diluent: 20 mM Phosphate buffer pH 7,2 - 7,4, 0,1% sodium azide

Note: the strip is composed of nitrocellulose membrane, vinyl matte adhesive, fiber absorbent pad, fiber sample pad, fiber conjugate pad. The nitrocellulose membrane and the fiber conjugate pad contain dried biological substances preserved by sodium azide. The identity of each biological substance is confidential

4- FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled Inhalation of any component in this kit is unlikely. If a component is inhaled and causes discomfort, move exposed individual to fresh air. Seek medical attention if breathing is difficult or synptoms persist.

If swallowed Ingestion of small amounts of the Sample Diluent should not be toxic, however, a physicia should be immediately. The animal proteins and dried reagents absorbed into the nitrocellulose membrane and the fiber conjugate pad are very unlikely to be ingested or be hazardous by ingestion. However, a physician should be consulted should ingestion occur.

In case of eye contact The test device is very unlikely to be contacted by eye, however, contact physician should a contact occur. In case of contact with the Sample Diluent, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

In case of skin contact The Sample Diluent is not likely to be hazardous by skin contact. However in case of contact, immediately clean skin with plenty of water. Remove contamined clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. The animal proteins and dried reagents absorbed into the nitrocellulose membrane and the fiber conjugate pad are very unlikely to be hazardous by skin contact, but clean the skin after use is advisable

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5 - FIRE-FIGHTING MEASURES

5.1 Extinguishing media For small fires, use dry chemical, carbon dioxide or alcohol-resistant foam. No direct contact with water.

5.2 Special hazards arising from the substance or mixture

When involved in a fire, this material can be decompose and produce irritating fumes and toxic gases (e.g., Carbon monoxide, Carbon dioxide, sulfuric dioxide)

5.3 Advice for firefighters This material will not significantly contribute to the intensity of a fire. Use extinguishing material suitable to the surrounding fire. Utilize proper personal protective equipment when responding to any fire. Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move containers from fire area if it can be done without risk to personnel. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally

6- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment, lab coat and gloves

6.2 Environmental precautions Avoid disposal/reversal on waterways

6.3 Methods and material for containment and cleaning up

Use adsorbent paper towel or cloth to adsorb the spill solution and dispose or clean the contaminated surface in accordance with local procedures or appropriate standards.

6.4 Reference to other sections For disposal see section 13.

7 – HANDLING AND STORAGE

7.1 Precautions for safe handling Don't eat, drink, smoke or apply cosmetics in laboratory area. Use the product according to the product insert.

7.2 Conditions for safe storage, including any incompatibilities

	Keep container tightly clossed. Keep product at 2-30°C. Do not freeze or expose to temperature higher than 30°C. Keep away from children.
7.3 Specific end use(s)	Store in cool, dry place. Keep container tighly closed away from direct sunlight or heat sources. Store at temperature below 30°C.

8- EXPOSURE CONTROLS - PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

CAS#	Chemical name	OSHA (PEL)	ACGIH(TLV)	MAK
26628-22-8	Sodium Azide	0.3 mg/m^3	0.29 mg/m^3	0.2 mg/m^3

Biological Exposure Index (ACGIH).

8.2 Exposure controls

Appropriate engineering controls	Eye bath. Use adequate ventilation to keep airborne concentration low
Personal protective equipment	
Eye/face protection	Use safety glasses. Or an equipment for eye protection.
Skin protection	Handle with gloves. Use with a lab coat.
Body Protection	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	**R**espiratory protection is not required.

9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Strip	Diluent
a) Appearance Form:	solid	colourless liquid
b) Odour	odorless	odorless
c) Odour Threshold	no data available	no data available
d) pH	no data available	7.2-7.4
e) Melting point/freezing point	275°C sodium azide	275°C sodium azide
f) Initial boiling point and boiling range	no data available	no data available
g) Flash point	no data available	no data available
h) Evaporation rate	no data available	no data available
i) Vapour pressure	no data available	no data available
j) Vapour density	2.2 sodium azide	2.2 sodium azide
k) Relative density	no data available	no data available
l) Water solubility	42% at 17°C sodium azide	42% at 17°C sodium azide
m) Viscosity	no data available	no data available
n) Explosive properties	no data available	no data available
o) Oxidizing properties	no data available	no data available

9.2 Other safety information no data available

10 – STABILITY AND REACTIVITY

10.1 Reactivity	no data available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	no data available
10.4 Conditions to avoid	for sodium azide: Acids, metals,caustics, acid chlorides, peroxides and hydroperoxides, and oxidizing agents

10.5 Incompatible materials no data available

10.6 Hazardous decomposition products for sodium azide: nitrogen oxides, nitrogen, hydrazoic acid

11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No adverse effects on the health are expected from the components of the product. There is no aquatic toxicity data for this product at this time. Individual aquatic toxicity studies have been completed for the below listed chemicals. Sodio Azide.

RTECS Number	VYB050000
Toxicity Data and References:	Toxicology Review Reference FNSCA6 2:67, 1973
Orl; hmn: TDLo: 710 µg/kg	JCPAAK 28:350, 1975
Orl; man: LDLo: 143 mg/kg	JTCTDW 24:339, 1986
Orl; woman: LDLo: 14 mg/kg arrythmias	JFSCAS 35:193, 1990
Ipr, rat: LDLo: 30 mg/kg	PHRPA6 58:607, 1943

Genetic Data and References:

Fbr, hmn: Dose 50 mg/L DNA inhibition	STBIBN 78:165, 1980
Lvr, rat: Dose: 1 mmol/L mutations in mammalian somatic cells	MUREAV 77:293, 1980

Tumorigenic Data and References:

Orl, rat. Dose: 2730 mg/kg/78W-C skin, appendage and endocrine system tumors JJIND8 67:75, 1981
Orl, rat. Dose: 5460 mg/kg/78W-C skin, appendage and endocrine system tumors JJIND8 67:75, 1981

Refer to the Registry of Toxic Effects of Chemical Substances (RTECS) for definitions of abbreviations used in the above text and for additional information. This report contains only selected information from the RTECS.

12 – ECOLOGICAL INFORMATION

12.1 Toxicity (sodium azide) Dangerous to the environment. Very toxic to acquatic organism; may cause long term adverse effects in the acquatic environment. Freshwater Fish Species Data:
96 Hr LC50 oncorhynchus mykiss: 0.8 mg/L
96 Hr LC50 lepomis macrochirus: 0.7 mg/L
96 Hr LC50 pimephales promelas: 5.46 mg/L

12.2 Persistence and degradability no data available

12.3 Bio accumulative potential no data available

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment no data available

12.6 Other adverse effects no data available

13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Waste must be disposed of in accordance with federal, state and local environmental control regulations. This product is not considered a RCRA (Resource Conservation and Recovery Act) hazardous waste. Accumulation of sodium azide in the sink may form highly explosive metal azides. Don't dispose the solid product into the sink.

Contaminated packaging Do not remove labels from containers for disposal or recycling. Observe all the attention and precautions listed for the product.

14 – TRANSPORT INFORMATION

The product is considered non dangerous for transportation

14.1 UN number ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es) ADR/RID: - IMDG: - IATA: -

14.4 Packaging group ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user no data available

15 – REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment no data available

16 – OTHER INFORMATION

The information in this MSDS was obtained from current and reliable sources. Anyone using this information is solely responsible for the accuracy and applicability of this information to a particular use or situation.
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