SECTION 1: IDENTIFICATION OF THE SUBSTANCE /MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name: 5-ELISA ADAMTS-13 ANTIGEN

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

For Research Use Only. Any non-intended usage is prohibited.

1.3 Details of the Supplier of the Material Safety Data Sheet

Company name: 5-Diagnostics AG
Address: Heuberg 7, 4051 Basel, Switzerland

Contact information 5-Diagnostics

Email: info@5-diagnostics.com
Internet: www.5-diagnostics.com
Tel: +41 61 588 07 84

1.4 Emergency telephone number: 112 (European emergency number) or local emergency number

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Substance or Mixture Classification

Classification Information:

REAGENTS	HAZARD CATEGORY	HAZARD STATEMENTS
C1	-	-
C2	-	-
CAL	-	-
COAT	-	-
IC	-	-
ICD	-	-
SA	-	-
SD	-	-
SU	-	-
WS	-	-

2.2 Label Elements

REAGENTS	HAZARD PICTOGRAMS	SIGNAL	HAZARD STATEMENTS
C1	-	-	-
C2	-	-	-
CAL	-	-	-
COAT	-	-	-

IC	-	-	-
ICD	-	-	-
SA	-	-	-
SD	-	-	-
SU	-	-	-
WS	-	-	-

2.3 Other Hazards

None

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE

Not applicable.

3.2 MIXTURES

Hazardous Ingredients :

REAGENTS	Name of Components	CAS / EG / REACH	Classification of the substance according to 1272/2008 (CLP)	CONCENTRATION
C1	-		-	-
C2	-		-	-
CAL	-		-	-
COAT	-		-	-
IC	-		-	-
ICD	-		-	-
SA	Sulfuric Acid	7664-93-9 /…/ 01-2119458838-20	H314	<5%
SD	-		-	-
SU	-		-	-
WS	-		-	-

Additional Information:

Do not swallow or inject.

SECTION 4 : FIRST AID MEASURES

4.1 Description of First-aid Measures

First-aid Measures General:

Seek medical advice immediately in case of accident or unwellness (Show this safety data sheet). Never give anything by mouth to an unconscious person. Never leave the victim unattended.

First-aid Measures After Inhalation:

Go into open air and ventilated suspected area. Keep at rest. In case of respiratory tract irritation, consult a physician.

First-aid Measures After Skin Contact:

Remove contaminated clothing. Wash with plenty of soap and water. In case of skin irritation, obtain medical treatment.

First-aid Measures After Eye Contact:

Rinse cautiously with flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do so. Afterwards, get medical advice.

First-aid Measures After Ingestion:

Rinse mouth thoroughly with water. Do not induce vomiting. Obtain medical attention.

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.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Product non-flammable. Use extinguishing appropriate measures for surrounding fire.

Unsuitable extinguishing media

Water spray.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2 Carbon monoxide (CO).

5.3 Advice for firefighters

In case of fire: Do not enter fire area without proper protective equipment, including respiratory protection. Do not allow extinguishing water to enter sewer or any water course. Do not breathe fire/explosive fumes.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not get in eyes, on skin, or on clothing. Dust formation to be avoided. No smoking. Do not breathe the dust. Use appropriate personal protective equipment (PPE).

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

For Containment: Contain any spills with dikes or absorbent to prevent migration. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods of Cleaning Up: Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal : see section 13

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on Safe Handling

Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Do not breathe mist, spray, vapors. Handle empty containers with care because they may still present a hazard. Use appropriate personal protective equipment (PPE) (refer to section 8).

Advice on protection against fire and explosion

No special precautions.

Additional Information on handling

Generation of dust must be avoided. General protection and hygiene measures: refer to chapter 8.

7.2 Conditions for Safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the container tightly closed. Put in a cool, dry, and well-ventilated place.

For reagent SA, keep only in the original container.

Advice on storage compatibility

No data Available.

Recommended storage temperature

Store at **2-8° C**.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

Keep the packing dry and well-sealed to prevent contamination and absorption of humidity.

7.3 Specific end use(s)

Aside from the uses mentioned in section 1.2., no other specific uses are stipulated.

SECTION 8 : EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control Parameters

Occupational exposure limit values

No data available.

Biological limit values

No data available.

8.2 Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Always close containers tightly after the removal of precuts. Any measure taken shall comply with good hygiene practice.

Personal Protective Equipment

During handling the product, use appropriate protective clothing in compliance with the applicable rules. When using the product do not eat, drink, smoke, and sniff. Wash hands before breaks and after work.

Skin/Hand Protection

Use impermeable and resistant gloves during handling the product. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eye/Skin Protection

Eye and face protection is recommended. Use eye and face protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Respiratory protection

Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

The usual precautionary measures are to be adhered when handling the chemical and biological products. Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

PROPERTIES	C1	C2	CAL	COAT	IC	ICD	SA	SD	SU	WS
Appearance	LP	LP	LP	S	L	L	L	L	L	L
Color	WY	WY	WY	ND	CL	CL	CL	CL	CL	CL
Odour	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH value	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Melting point	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boiling point	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flash point	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Decomposition point	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Auto-ignition temperature	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Explosive properties	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oxidizing properties	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sustaining Combustion	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Low explosive limit	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
High explosive limit	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vapour density	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vapour pressure	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Evaporation rate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Relative density	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water solubility	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Solubility	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Viscosity	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Partition coefficient: n-octano/water	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Legend: NA(not applicable), ND(not determined/no data available), S(Solid), LP(Lyophilized Powder), L(Liquid), W/Y(White/Yellow), CL(Colorless)

9.2 Further information

Other Information: ND (not determined/no date available).

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity

No data available.
No dangerous reactions known if handled in compliance with applicable provisions/under normal conditions of use.

10.2 Chemical stability

The preparation is stable if handled and stored as recommended under section 7.

10.3 Possibility of hazardous reactions

None if used for the intended purpose.

10.4 Conditions to avoid

None if used for the intended purpose.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

None if used for the intended purpose.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxological effects

PROPERTIES	C1	C2	CAL	COAT	IC	ICD	SA	SD	SU	WS
Acute oral toxicity	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute dermal toxicity	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute inhalational toxicity	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Skin corrosion/irritation	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Serious eye damage/eye irritation	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Respiratory or skin sensitisation	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Germ cell mutagenicity	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Reproductive toxicity	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenicity	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Specific target organ toxicity : - **Single exposure** - **Repeated exposure**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aspiration hazard	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Legend: NA (not applicable), ND (not determined/no data available)

SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

PROPERTIES	C1	C2	CAL	COAT	IC	ICD	SA	SD	SU	WS
Fish toxicity - **Acute** - **Chronic**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Daphnia toxicity - **Acute** - **Chronic**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Algae toxicity - **Acute** - **Chronic**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bacteria toxicity - **Acute** - **Chronic**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Legend: NA (not applicable), ND (not determined/no data available)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative 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.

Additional information

Do not disposed the product unattended in to the environment.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product

Waste must be disposed in compliance with national rules and regulations and it can be consulted with your available environmental services. Waste disposal code is established with your designated regional waste disposer.

Packaging

Completely emptied packaging or empty packaging containing residues must be disposed properly. Seek consultation from your designated regional waste disposer.

SECTION 14 : TRANSPORT INFORMATION

14.1 Transport ADR/RID/IMDG/IATA

Not subject to transport regulation of dangerous goods as regulated in ADR/RID, IMDG, IATA and DOT.

Not subject to transport regulations (GGVS/ADR, GGVE/RID, IMDG, IATA/ICAO).

	ADR/RID	IMDG	IATA
Class	-	-	-
Classification code	-	-	-
Packing group	-	-	-
Hazard identification no.	-	-	-
Technical name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (Sulfuric Acid Mixture <5%)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (Sulfuric Acid Mixture <5%)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (Sulfuric Acid Mixture <5%)
Tunnel restriction code	-	-	-
Label	-	-	-

14.2 Other information

No data available.

14.3 Environmental hazards

No hazard known.

14.4 Special precautions for user

No data available.

SECTION 15 : REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulations

This MSDS file is comply to the requirements described on the Regulation (EC) No 1907/2006 (REACH) and 1272/2008 (CLP).

15.2 Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

16.1 Key literature references and data sources

This data safety sheet is according to the current version of Regulation EC 1907/2006(REACH), Regulation (EC) 1272/2008 (CLP). The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section of this SDS.

The above information describes exclusively the safety requirements of the product and based on our present-day knowledge and experience. The information mention above is intended to provide advices of safety handling of the product for storage, processing, transport and disposal, etc. This information is only intended for this product and can not be transfer to other products. Mixing this product with other products or in case of processing, the information on this safety data sheet is no longer valid for a new processed material.

5-Diagnostics and its appointed agents/distributors will not be held liable for any damage(s) resulting from or from contact with the products included in the kit.

16.2 Abbreviations and acronyms

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

CLP: European Regulation on Classification, Labelling and Packaging of Substances and Mixtures

CMR: Carcinogenic, Mutagenic or Toxic to Reproduction

IATA-DGR: International Air Transport Association- Dangerous Goods Regulations

IMDG: International Maritime Code for Dangerous Goods

NIOSH: National Institute for Occupational Safety and Health in the U.S.

PBT: Persistent Bioaccumulative Toxic

REACH: Union European Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: International Rule for Transport of Dangerous Substances by Rail

vPvB: Very Persistent, Very Bioaccumulative