



# SAFETY DATA SHEET

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## SECTION 1: Identification of the substance/mixture and of the company

### 1.1 Product Identifier

REF: HDiS

Product name: DILUENT SOLUTION

REACH registration number: The annual tonnage does not require registration

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

Laboratory reagents intended to assist with in vitro diagnosis

### 1.3 Details of the supplier of the safety data sheet

Manufactured by:

DIMITRIADIS IOANNIS AND SON PC Production of Electrophoresis Products  
Business Incubator Thermi, Steliou Kazantzidi 47, 57001 THERMI PO BOX 8101,  
GREECE Email: hellabio@hellabio.com. www.hellabio.com TEL (+30) 2311 999911

### 1.4 Emergency telephone number

Call (+30) 2311 999911 (Hellabio, Thessaloniki, Greece) for general information. In case of an emergency please contact your country's poison control center.

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

Protein diluent solution

**Signal word: Danger**

Health Hazards	Hazard Category
Fatal if swallowed	Acute Tox. 2

Environmental Hazards	Hazard Category
Very toxic to aquatic life	Aquatic Acute 1
Very toxic to aquatic life with long lasting effects	Aquatic Chronic 1

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## 2.2 Labeling Elements

Protein diluent solution



Signal word: Danger

Hazard statements	Hazard Class
H300	Acute Tox. 2
H400	Aquatic Acute 1
H410	Aquatic Chronic 1

Precautions/Prevention
P203- Obtain, read, and follow all safety instructions before use
P280- Wear protective gloves, protective clothing, eye protection, face protection
P264- Wash hands thoroughly after handling
P270- Do not eat, drink, or smoke when using this product
P273- Avoid release to the environment

## 2.3 Other Hazards

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1 Substances / 3.2 Mixtures

Protein diluent solution

Component	Cas number	Conc.-%	Hazard Statement
Sodium Azide	26628-22-8	0.1%	H300- Acute Tox.3 H400- Aquatic Acute 1 H410- Aquatic Chronic 1

All other components present no significant physical or chemical hazard at the concentration used.

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

Skin contact:

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for 15 minutes under running water.

Eye contact:



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Rinse the affected eye(s) thoroughly under running water for at least 10 minutes. Further treatment by a physician should follow.

#### Inhalation:

Transfer the affected person(s) to fresh air. If symptoms persist, call a physician.

#### Oral intake/ingestion:

Contact IMMEDIATELY with your country's poison control center

#### **4.2 Most important symptoms and effects, both acute and delayed**

In most cases, a rapid rinse with water is sufficient to alleviate the symptoms. However, prolonged exposure can lead to irritation and damage to the eyes and skin.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

In case of oral intake/ingestion contact with country's poison control center and/or a physician IMMEDIATELY.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

All mixtures are non-flammable. Suitable extinguishing media: Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical. Not suitable extinguishing media: No data available.

#### **5.2 Special hazards arising from the substance or mixture**

No data available

#### **5.3 Advice for firefighters**

Wear protective suit with breathing apparatus

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Do not inhale vapors. Remove any contaminated clothing.

Avoid contact with bare skin and use personal protective equipment (PPE). Clean with caution.

#### **6.2 Environmental precautions**

Avoid spilling into drains and waterways whenever possible. Buffers containing sodium azide pose a danger to the environment.

#### **6.3 Methods and material for containment and cleaning up**

Wipe spillage with caution using absorbent paper. Do not touch with bare hands/skin. Rinse with water.

#### **6.4 Reference to other sections**

See section 3 for hazard information of each mixture



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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Always follow the instructions for use. Each kit should be stored horizontally, as indicated on the label. Use personal protective equipment (wear protective gloves, protective clothing, eye protection, face protection).

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated area between 15-25°C.

### 7.3 Specific end use(s)

This kit is intended for in vitro diagnosis.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters/ Occupational exposure limits (OELs)

Component	Cas Number	ACGIH TLV® 8-hour TWA	CAL/OSHA PEL
Sodium Azide	26628-22-8	0.29 mg/m <sup>3</sup> (as Sodium azide)	0.3 mg/m <sup>3</sup>

### 8.2 Exposure controls

Use personal protective equipment (PPE)

Eye protection: Use safety glasses, avoid contact.

Skin/Hand protection: Avoid direct contact of the product with skin, immediately remove any clothing soiled with the product and wash contaminated skin with soapy water. Use personal protective equipment, proper clothing and gloves.

Respiratory protection: Avoid fumes, use in well-ventilated areas.

Thermal hazards: Not applicable.

## SECTION 9: Exposure controls/personal protection

### 9.1 Information on basic physical and chemical properties

#### Protein diluent solution

Physical state	Liquid
Colour	Blue/Purple
Odour	Odourless
Odour threshold	No data available
pH	9 ± 0.2
Melting point/freezing point	No data available
Initial boiling point and boiling range	90 - 100°C
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas)	Not flammable



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Upper/lower flammability or explosive limits	No data available
Vapour pressure:	23 hPa
Vapour density:	No data available
Relative density:	No data available
Solubility(ies)	Miscible with water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Not explosive

## 9.2 Other information

No other relevant information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable in the conditions provided by the manufacturer.

### 10.2 Chemical stability

No decomposition if stored and applied as directed. The product is stable when normal handling is in accordance with conditions provided by the manufacturer.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Avoid heat.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

There is no available data for the mixtures/buffers. Toxicity levels of chemicals used in mixtures are stated below. For Information on hazard classes as defined in Regulation (EC) No 1272/2008 see sections 2 and 3.

Acute toxicity

Component	LD50 (Oral - Rat)
Sodium Azide	27 mg/kg

Skin corrosion/irritation: May irritate skin



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Serious eye damage/irritation: Irritant for the eye  
Respiratory or skin sensitization: No data available  
Germ cell mutagenicity: No data available  
Carcinogenicity: No data available  
Reproductive toxicity: No data available  
STOT-single exposure: No data available  
STOT-repeated exposure: No data available  
Aspiration hazard: No data available

## SECTION 12: Ecological information

### 12.1 Ecological Toxicity

Mixtures containing Sodium Azide (Cas: 26628-22-8) pose a danger to the environment and aquatic organisms with long lasting effects. Avoid release to the environment and ensure proper disposal methods. Quickly contain and manage any spillage, with appropriate cleanup materials. Do not spill into drains and waterways.

### 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 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No other relevant information

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

It is crucial to handle and dispose of chemicals in compliance with local, regional, and national regulations to prevent environmental contamination or harm to public health. Users are advised to exercise caution when managing waste, ensuring that disposal methods minimize risks to human health and the environment. Proper waste treatment can involve neutralization, incineration, or disposal at a licensed facility designed to handle hazardous substances. Always consult local waste disposal guidelines and regulatory authorities to ensure full compliance with your country's laws regarding hazardous material disposal.

## SECTION 14: Transport information

### 14.1 UN number or ID number

Not applicable

### 14.2 UN proper shipping name



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Not applicable

#### 14.3 Transport hazard class(es)

Not applicable

#### 14.4 Packing group

No limits

#### 14.5 Environmental hazards

Avoid spillage to the environment

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

### SECTION 15: Regulatory information

This Material Safety Data Sheet (MSDS) was prepared in accordance with Regulation (EC) No 1907/2006 (REACH), No 1272/2008 and No 2020/878.

The supplier has not carried out a chemical evaluation or safety assessment for the substance or mixture.

### SECTION 16: Other information

The information provided in this Material Safety Data Sheet (MSDS) is intended solely for safety guidance and is based on the best available knowledge at the time of publication. It is not intended to be a warranty. The manufacturer or distributor does not assume any liability for the misuse or improper handling of the product. Always refer to the latest regulatory information and consult with safety experts when necessary.