

## 1. Identification of the substance/preparation and of the Company/Undertaking

### 1.1 Product identifiers

Product name

***I'screen AHD – HU0050011***

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

In vitro diagnostic kit.

### 1.3 Company/Undertaking identification

Eurofins Technologies Hungary Kft.

Fóti út 56. A épület

1047 Budapest

Hungary

e-mail: technologies.hu@eurofins.com

### 1.4 Emergency telephone

Please, contact your local Poison Centre.

## 2. Hazards Identification

**2.1 Classification:** Known hazardous components according to Regulation (EC) No. 1272/2008: **stop solution** (sulfuric acid, 5≤x<15% wt/wt), classified as skin irritant (category 2) and eye irritant (category 2) and **2-nitrobenzaldehyde** (ethanol >50% wt/wt), classified as eye irritant (category 2) and flammable liquids (category 2)

### 2.2 Label elements

Pictogram



**Stop solution**



**2-Nitrobenzaldehyde**

Hazard Class and Category

Skin Irrit. 2  
Eye Irrit. 2

Flam. Liq. 2  
Eye Irrit. 2

Signal word

**Warning (Wng)**

**Danger (Dng)**

Hazard statements

H315  
H319

H225  
H319

Precautionary statements

P264  
P280  
P302+P352  
P305+P351+P338  
P332+P313  
P337+P313  
P362

P280  
P305+P351+P338  
P337+P313  
P403+P235

*Hazard statements and precautionary statements full text in section 16.*

### 2.3 Supplemental Hazard – none.

### 3. Composition/information on ingredients

Component	Hazardous substance	% (wt/wt)	Component classification	CAS No.	EC No.
Microtiter plate	-	-	non hazardous	-	-
Standard AHD	2-NP-AHD	<0.01%	non hazardous	623145-57-3	-
AHD Spiking solution	AHD-HCl	<0,01%	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3	2827-56-7	700-277-4
Enzyme Conjugate	Thimerosal	< 0,1%	Acute Tox. 2 Acute Tox. 1 STOT SE 2 Aquatic Chronic 2	54-64-8	200-210-4
2-Nitrobenzaldehyde	2- Nitrobenzaldehyde	< 1%	Acute Tox. 4 Eye Irr. 2 Skin Irr. 2 STOT SE 3	552-89-6	209-025-3
	Ethanol	>50%	Liq. Inf. 2 Eye Irr. 2	64-17-5	200-578-6
Washing Buffer 20x	-	-	non hazardous	-	-
Developing Solution	Citric Acid	< 5%	Eye Irrit. 2	77-92-9	201-069-1
Stop solution, 8ml	Sulfuric Acid	5≤x<15% (1M)	Skin Corr.1A	7664-93-9	231-639-5

### 4. First Aid Measures

#### 4.1 Description of first aid measures

*If inhaled:* there is a minimal risk of inhalation. In case there appear to be symptoms of exposure, supply fresh air. Monitor respiration. If breathing becomes difficult, consult a doctor and give oxygen. Get medical aid.

*In case of skin contact:* immediately flush with large amounts of water and soap. Remove all contaminated clothing and wash them before reusing. In presence of irritation, get medical aid.

*In case of eye contact:* flush eyes with large amounts of water for at least 15 minutes. Insure adequate washing by keeping eyelids open with fingers. Get medical aid.

*If swallowed:* STOP SOLUTION and 2-NITROBENZALDEHYDE: DO NOT induce vomit. Do not administer anything if victim is unconscious. Rinse mouth with water. Get medical aid.

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

See section 2.2 and section 11.

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

No data available.

### 5. Firefighting Measures

2-Nitrobenzaldehyde is flammable. Risks derived from fire are minimal due to small volume of material. The other components of kit are not flammable.

*5.1 Extinguishing media:* Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep surrounding materials cool with water spray.

*5.2 Special hazards arising from the mixture:* Stop solution: sulphur oxides.

2-nitrobenzaldehyde: Carbon oxides.

*5.3 Advice for firefighters:* in case of fire, if necessary, wear approved self-contained breathing apparatus and appropriate protective clothing.

*5.4 Further information:* Keep surrounding materials cool with water spray.

### 6. Accidental Release Measures

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

The small supplied volumes and packaging insure minimal risk of accidental release. In case of spill, wear protective clothing as indicated in section 8. Ensure adequate ventilation.

6.2 *Environmental precautions*: avoid seepage into water course or sewage system.

6.3 *Methods and materials for containment and cleaning up*: Absorb spill with inert absorbent material or absorbent paper. Discard all material into biohazard waste collection container for proper disposal. Wash the contaminated area taking care to avoid seepage into water course or sewage system.

6.4 *Further information*: see section 13 for disposal.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

There are not special warnings if used according to instruction. Avoid skin and eyes contact. Avoid inhalation of vapour or mist. Wear appropriate personal protective equipment as specified in section 8.

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

Keep products tightly sealed in their original containers. Store bottles between +2°C and +8°C. Avoid physical damage to containers. Do not expose to heat or direct light.

The packaging guarantees the component isolation from incompatible material.

### 7.3 Specific end uses

In vitro diagnostic reagents, as described in section 1.2.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

*Components with workplace control parameters.*

*Exposure workplace limit values for sulfuric acid (data refer to pure substance):* 0,05 mg/m<sup>3</sup> (TWA).

8.2 *Exposure controls*: Adhere to instructions and good laboratory practice. Use disposable latex or nitrile rubber gloves and protective lab coat. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Have emergency shower and eye wash stations available. Always avoid direct contact of the solution with eyes, skin and clothing. Avoid inhalation. Avoid prolonged or repeated exposure.

## 9. Physical and Chemical Properties

Microtiter plate	polystyrene plastic material, 96-wells breakable (or 48-wells) microtiter plate (12 strips each of 8 wells)
AHD Standard	liquid, colourless, odourless
AHD Spiking Solution	liquid, colourless, odourless
Enzyme Conjugate	liquid, light yellow, odourless
Washing buffer 20x	liquid, colourless, odourless
Developing solution	liquid, colourless, odourless
2-Nitrobenzaldehyde	liquid, colourless, odour characteristic
Stop solution	liquid, colourless, viscous, odour characteristic

## 10. Stability and reactivity

10.1 *Reactivity*: no data available.

10.2 *Chemical stability*: stable under the conditions for storage and handling described in the instructions. Keep in their original containers.

10.3 *Possibility of hazardous reactions*: no data available.

10.4 *Conditions to avoid*: heat, flame, sparks, direct light, incompatible materials.

10.5 *Incompatible materials*: Stop solution: bases, halides, organic materials, carbides, nitrates, picrates, cyanides, chlorates, alkali halides, zinc salts, permanganates, hydrogen peroxide, azides, perchlorates, nitromethane, phosphorous, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(iii) oxide, powdered metals.

2-Nitrobenzaldehyde: Alkali metals, Oxidizing agents, Peroxides

10.6 *Hazardous decomposition products*: no data available.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Stop solution is classified as skin irritant (category 2) and eye irritant (category 2).

It may irritate skin, mucous and upper respiratory tract. Toxicological properties have not been further investigated.

*Further information:* RTECS: WS5600000 (sulfuric acid).

2-Nitrobenzaldehyde is classified as skin irritant (category 2). It may cause central nervous system depression, narcosis, damage to the heart. Toxicological properties have not been further investigated.

*Further information:* KQ6300000 (ethanol).

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## 12. Ecological Information

The components are furnished in volumes that do not represent hazard for the environment if used and disposed of correctly.

This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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## 13. Disposal Considerations

Use the components according to good laboratory practice. Avoid release to the environment. Do not allow product to reach sewage system. Observe all international and local environmental regulations. Send surplus and non recyclable solutions to a licensed disposal company.

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## 14. Transport Information

Though some components are mentioned in legislation on transport of hazardous goods (ethanol, UN1170 and sulphuric acid, with not more than 51% pure acid, UN2796), the volumes and the types of containers used with this product are such that this product is exempt from these norms.

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## 15. Regulatory Information

This safety data sheet is in accordance with Regulation (EC) No. 1907/2006 and Regulation No. 453/2010.

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## 16. Other information

*Hazard statements and precautionary statements full text*

### **Full text of H-Statements referred to sections 2 and 3**

Skin Irrit. 2 Skin irritant (category 2)

Eye Irrit. 2 Eye irritant (category 2)

Flam. Liq. 2 Flammable liquids (category 2)

H225: Highly flammable liquid and vapour

H315: Causes skin irritation

H319: Causes serious eye irritation

### **Precautionary statements**

P264: Wash thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

P302+P352: If on skin, wash with plenty of soap and water

P305+P351+P338: If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P332+P313: If skin irritation or rash occurs: get medical advice

P337+P313: If eye irritation persists: get medical attention

P362: Take off contaminated clothing and wash before reuse

P403+P235: Store in a well ventilated place. Keep cool

**IMPORTANT!** Read the safety data sheets before the use and disposal of this product. Insure that this information is understood by the operators exposed to this product. Use this product for the intended purpose as indicated in the instruction manual.

The above information is believed to be accurate and up to date. It is, however, liable to change due to the continuous modification of legislation and of standards and security data. Since the correct or incorrect use of this product is beyond our jurisdiction, this information cannot be expressed or implied to be comprehensive. Eurofins Technologies Hungary cannot be held responsible for any improper use of the product, including those uses that could violate current patents or other copyrights. Only the user is responsible for the evaluation of this product's conformity and of the risks involved before use, and must adopt appropriate precautions towards self and other persons involved.

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