

**Safety Data Sheet**  
**Mouse/Rabbit UnoVue HRP/DAB Detection System (EU)**



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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Product name	Mouse/Rabbit UnoVue HRP/DAB Detection System (EU)
Product number	UMR 100PD, UMR1000PD, UMR25PD
Brand	Mouse/Rabbit UnoVue HRP/DAB Detection System

**Other means of identification**

Used in kits PVP 100-AUTO, UVP100-AUTO

Components Kit Component

1. Peroxidase Block
2. Anti- Mouse/Rabbit HRP Polymer
3. Stable DAB/Plus Buffer
4. Stable DAB/Plus Chromogen

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

In Vitro Diagnostic Use

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

Name	Diagnostic Biosystems
Address	6616 Owens Drive Pleasanton CA 94588 USA
Telephone	(888) 896-3350
email	customersupport@dbiosys.com

**1.4 Emergency telephone number**

(925) 484-3350 (9AM-6PM, Monday - Friday, Pacific Standard Time)

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**SECTION 2: Hazards identification**

**General hazard statement**

For Professional Users Only

**2.1 Classification of the substance or mixture**

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## Mouse/Rabbit UnoVue HRP/DAB Detection System (EU)

### Classification according to Regulation (EC) No 1272/2008 (CLP)

- Acute toxicity, inhalation (chapter 3.1), Cat. 5, H333
- Acute toxicity, oral (chapter 3.1), Cat. 5, H303
- Carcinogenicity (chapter 3.6), Cat. 1B, H350
- Germ cell mutagenicity (chapter 3.5), Cat. 2, H341
- Serious eye damage/eye irritation (chapter 3.3), Cat. 1, H318
- Skin corrosion/irritation (chapter 3.2), Cat. 1A, H314
- Toxic to reproduction (chapter 3.7), Cat. 1B, H360
- Toxic to reproduction (chapter 3.7), Cat. 1A, H360

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 16.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 [CLP]

#### Hazard pictograms



1. Exclamation mark; 2. Health hazard; 3. Corrosion

#### Signal word

**Danger**

#### Hazard statements

H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child

#### Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.

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P501

Dispose of contents/container to a licensed disposal company.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

##### Component 1.

##### 1. Hydrogen peroxide

Concentration < 5 % (volume), 1

Other names / synonyms

ALBONE; DIHYDROGEN DIOXIDE; HYDROGEN DIOXIDE; HYDROGEN PEROXIDE; Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>); hydrogen peroxide solution; hydrogen peroxide solution; HYDROGEN PEROXIDE SOLUTION; Hydrogen peroxide, and other compounds or mixtures that release hydrogen peroxide, including carbamide peroxide and zinc peroxide; Hydrogenii peroxidum; HYDROGENPEROXIDE; HYDROPEROXIDE; PEROXIDE; SUPEROXOL; T-STUFF

EC no. 231-765-0

CAS no. 7722-84-1

Index no. 008-003-00-9

- Acute toxicity, inhalation (chapter 3.1), Cat. 4

- Acute toxicity, oral (chapter 3.1), Cat. 4

- Oxidizing liquids (chapter 2.13), Cat. 1

- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H271 May cause fire or explosion; strong oxidizer

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H332 Harmful if inhaled

SCLs/M-factors/ATEs Ox. Liq. 1; H271: C ≥ 70 %\*\*\*\*

Ox. Liq. 2; H272: 50 % ≤ C < 70 % \*\*\*\*

\*

Skin Corr. 1A; H314: C ≥ 70 %

Skin Corr. 1B; H314: 50 % ≤ C < 70 %

Skin Irrit. 2; H315: 35 % ≤ C < 50 %

Eye Dam. 1; H318: 8 % ≤ C < 50 %

Eye Irrit. 2; H319: 5 % ≤ C < 8 %

STOT SE 3; H335; C ≥ 35 %

##### Component 2.

##### 1. Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)

Concentration < 0.1 % (volume), 2

Other names / synonyms

3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone; Kathon 886;

EC no. —

CAS no. 55965-84-9

Index no. 613-167-00-5

- Acute toxicity, inhalation (chapter 3.1), Cat. 2

- Acute toxicity, dermal (chapter 3.1), Cat. 2

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- Acute toxicity, oral (chapter 3.1), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1C
- Eye damage/irritation (chapter 3.3), Cat. 1
- Sensitization - skin (chapter 3.4), Cat. 1A
- Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1

H301	Toxic if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
SCLs/M-factors/ATEs	Skin Corr. 1C; : C ≥ ,6 % Skin Irrit. 2; H315: ,06 % ≤ C < ,6 % Eye Dam. 1; : C ≥ ,6 % Eye Irrit. 2; H319: ,06 % ≤ C < ,6 % Skin Sens. 1A; : C ≥ ,0015 % M=100 M=100

### Component 3.

#### 1. Imidazole

Concentration 0.1 - <= 0.5 % (weight), 3

Other names / synonyms 1H-Imidazole;  
EC no. 206-019-2  
CAS no. 288-32-4  
Index no. 613-319-00-0

- Reproductive toxicity (chapter 3.7), Cat. 1B
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1C

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H360D	May damage the unborn child

#### 2. Polysorbate 21

Concentration < 0.15 % (volume), 3

Other names / synonyms Polyoxyethylene sorbitan monolaurate; Polysorbate 20; Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs; Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs.; Tween 20  
EC no. 500-018-3  
CAS no. 9005-64-5

### Component 4.

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### 1. 3,3'-Diaminobenzidine tetrahydrochloride hydrate

Concentration <= 5 % (weight), 4

CAS no. 868272-85-9

Other names / synonyms [1,1'-Biphenyl]-3,3',4,4'-tetramine; biphenyl-3,3',4,4'-tetrayltetraamine; diaminobenzidine

- Eye damage/irritation (chapter 3.3), Cat. 2
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Carcinogenicity (chapter 3.6), Cat. 1B
- Germ cell mutagenicity (chapter 3.5), Cat. 2

H341 Suspected of causing genetic defects

H350 May cause cancer

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General notes Consult a physician. Show this safety data sheet to the doctor in attendance.

Following inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Following skin contact Rinse with plenty of water. Get medical attention if irritation develops and persists.

Following eye contact Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Following ingestion Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Self-protection of the first aider Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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## SECTION 5: Firefighting measures

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### 5.1 Extinguishing media

Use extinguishing media appropriate for surrounding fire.

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

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Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Carbon oxide. Nitrogen oxides.

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SODIUM AZIDE: Sodium oxides

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3,3'-Diaminobenzidine: Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

No data available.

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## SECTION 6: Accidental release measures

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

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place.

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### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### CAS: 7722-84-1

Hydrogen peroxide

ACGIH (USA): 1 ppm TLV® inhalation; Cal/OSHA (USA): 1 ppm PEL inhalation; NIOSH (USA): 1 ppm REL inhalation; OSHA (USA): 1 ppm PEL inhalation; 1.4 mg/m<sup>3</sup> PEL inhalation

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Individual protection measures, such as personal protective equipment

#### Pictograms



#### Eye and face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, 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).

#### Thermal hazards

No data available

#### Control banding approach

No data available.

#### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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Physical state	Liquid
Appearance	Clear
Colour	Not Applicable
Odour	Odorless
Odour threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

### Particle characteristics

No data available.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

No data available.

### 9.2.2 Other safety characteristics

No data available.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None under normal use conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None under normal use conditions.

### 10.4 Conditions to avoid

Exposure to moisture.

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

### 10.5 Incompatible materials



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Hydrogen peroxide: Zinc, Powdered metals, Iron, Copper, Nickel, Brass, Iron and iron salts.

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3,3'-Diaminobenzidine: Strong oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

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Hydrogen peroxide: Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

The ATE (gas inhalation) of the mixture is: 90000 ppmV

The ATE (oral) of the mixture is: 5000 mg/kg bw

3,3'-Diaminobenzidine

LD50 Oral - Mouse - 1,834 mg/kg

Polyoxyethylene sorbitan monolaurate

LD50 Oral - Rat - 40,554.0 mg/kg

Sodium azide

LD50 Oral - Rat - 27 mg/kg

#### Skin corrosion/irritation

Sodium azide

LD50 Skin - Rat - 20 mg/kg

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

Based on available data, classification data are not met

#### Germ cell mutagenicity

May cause genetic defects.

#### Carcinogenicity

3,3'-Diaminobenzidine

Oral - Rat

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Presumed to have carcinogenic potential for humans

#### Reproductive toxicity

Based on available data, classification data are not met

#### STOT-single exposure

No data available.

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### STOT-repeated exposure

No data available.

### Aspiration hazard

Sodium azide

LC50 Inhalation - Rat - 0.054 - 0.52 mg/l - 4 hr

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Polyoxyethylene sorbitan monolaurate

LC50 - Other fish - 350 mg/l - 24 h

Sodium azide

LC50 - Oncorhynchus mykiss (rainbow trout) - 2.96 mg/l - 96 h

Sodium azide

EC50 - Pseudokirchneriella subcapitata (green algae) - 0.348 mg/l - 96 h

### 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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

No data available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Packaging disposal

Dispose of as unused product.

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## Mouse/Rabbit UnoVue HRP/DAB Detection System (EU)

### Waste treatment

No data available

### Sewage disposal

Do not let product enter drains

### Other disposal recommendations

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

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## SECTION 14: Transport information

14.1 UN Number	UN3260
14.2 UN Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.
14.3 Transport hazard class(es)	8
14.4 Packing group	I

### 14.5 Environmental hazards

Marine pollutant

### 14.6 Special precautions for user

For professional users only.

Should not be released into the environment.

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

Not shipped in bulk

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## SECTION 15: Regulatory information

### 15.2 Chemical Safety Assessment

The supplier of this product has not conducted any Chemical Safety Assessment

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## SECTION 16: Other information

### Full text of hazard statements referenced in Section 2

H303	May be harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H333	May be harmful if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child

SDS-0068, Rev. C

### Further information/disclaimer

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