

# PowerVision & PowerVision+ Detection Systems (HRP/DAB)

## Material Safety Data Sheet

<b>1. PRODUCT AND COMPANY INFORMATION</b>
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### Identification of the product

**Product name:**

PowerVision+ Poly-HRP IHC Detection System  
PowerVision+ Poly-HRP IHC anti-Mouse Detection System  
PowerVision+ Poly-HRP IHC anti-Rabbit Detection System

**Catalogue code:**

PV6103, PV6104  
PV6112, PV6113  
PV6118

PowerVision Homo Mouse Detection System (DAB)

PV6134

**Intended Use:**

Immunohistochemistry

**Manufacturer / supplier identification**

**Company:** Leica Biosystems Newcastle Ltd.  
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# Component: Blocking, Post Blocking, Poly-HRP

## Material Safety Data Sheet

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS#	Percent Composition	Classification: Indications of Danger / R Phrases
Animal sera	No data	approx. 10%	R20/21/22 R36/37/38
2-methyl-4-isothiazolin-3-one	2682-20-4	0.1%	R36/37/38

For indications of danger and R-phrases see Section 16.

### 3. HAZARDS IDENTIFICATION

This product is not classified as a dangerous preparation according to 1999/45/EC, 67/548/EEC, 2001/58/EC directives and following amendments and modifications.  
For additional information on toxicity, please refer to section 11.

### 4. FIRST AID MEASURES

<b>Ingestion:</b>	If ingested, wash out mouth with water, provided person is conscious. Seek medical advice immediately. Do not induce vomiting.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice immediately.
<b>Skin:</b>	Immediately remove contaminated clothing and shoes. In case of skin contact, flush with plenty of water for at least 15 minutes.
<b>Eye:</b>	In case of contact with eyes, flush with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical advice immediately.

### 5. FIRE FIGHTING MEASURES

<b>Autoignition Temp:</b>	N/A
<b>Firefighting Protective Equipment:</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<b>Specific Hazard(s):</b>	Thermal decomposition may produce toxic fumes.

### 6. ACCIDENTAL RELEASE MEASURES

**Procedure(s) of Personal Precaution(s)**  
Wear enclosed footwear and chemical-resistant gloves.

**Methods for Cleaning Up**  
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid inhalation of vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
<b>Storage:</b>	Store at 2-8°C. Keep container tightly closed.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Controls:</b>	Safety shower and eye bath.
<b>Hand Protection:</b>	Compatible chemical-resistant gloves.
<b>Eye Protection:</b>	Chemical safety goggles.

# Component: Blocking, Post Blocking, Poly-HRP

## Material Safety Data Sheet

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Appearance:</b>	Liquid	<b>Relative Density:</b>	No data
<b>Color:</b>	Pale brown	<b>pH:</b>	No data
<b>Odor:</b>	No data	<b>Flash Point:</b>	No data
<b>Flammability:</b>	No data	<b>Solubility:</b>	Fully miscible with water

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Materials to Avoid:</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products:</b> Nature of decomposition products not known.	

### 11. TOXICOLOGICAL INFORMATION

<b>Skin Contact:</b>	May cause skin irritation.
<b>Skin Absorption:</b>	May be harmful if absorbed through the skin.
<b>Eye Contact:</b>	May cause eye irritation.
<b>Inhalation:</b>	Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
<b>Ingestion:</b>	May be harmful if swallowed.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### 12. ECOLOGICAL INFORMATION

No data available.

### 13. DISPOSAL CONSIDERATIONS

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before disposal.

### 14. TRANSPORTATION INFORMATION

This substance is considered to be non-hazardous for transport.

### 15. REGULATORY INFORMATION

This product is not classified as a dangerous preparation according to 1999/45/EC, 67/548/EEC, 2001/58/EC directives and following amendments and modifications.

<b>S-phrases:</b>	S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
<b>EEC-No.:</b>	No data available.
<b>Local regulations:</b>	No data available.

**Material Safety Data Sheet**

**16. OTHER INFORMATION**

**Indications of danger:** To the best of our knowledge no hazards are associated with the use of this product.

**R-phrases:** R20/21/22 R36/37/38  
Harmful if inhaled, in contact with skin and if swallowed. Irritating to eyes respiratory system and skin.

The information contained in this Material Safety Data Sheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of the data to the formulation of necessary safety precautions. Leica Biosystems Newcastle Ltd. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Data Sheet.

# Component: DAB Substrate

## Material Safety Data Sheet

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS#	Percent Composition	Classification: Indications of Danger / R Phrases
Acetic Acid	64-19-7	17%	R 36/37/38
Hydrogen Peroxide	7722-84-1	1%	R 36/37/38
Ethylenediaminetetraacetic acid tetrasodium salt	13235-36-4	0.455%	R 36/37/38

For indications of danger and R-phrases see Section 16.

### 3. HAZARDS IDENTIFICATION

According to 1999/45/EC, 67/548/EEC, 2001/58/EC directives and following amendments and modifications, the preparation is classified as:

R 36/37/38

Irritating to eyes, respiratory system and skin

For additional information on toxicity, please refer to section 11.

### 4. FIRST AID MEASURES

<b>Ingestion:</b>	If swallowed wash out mouth with water provided person is conscious. Call a physician.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen.
<b>Skin:</b>	Immediately remove contaminated clothing and shoes. In case of skin contact, flush with plenty of water for at least 15 minutes. Seek medical attention.
<b>Eye:</b>	In case of contact with eyes, flush with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical advice immediately.

### 5. FIRE FIGHTING MEASURES

**Autoignition Temp:** N/A

**Firefighting Protective**

**Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s):** Emits toxic fumes under fire conditions.

### 6. ACCIDENTAL RELEASE MEASURES

**Procedure(s) of Personal Precaution(s)**

Wear enclosed footwear and chemical-resistant gloves.

**Methods for Cleaning Up**

Absorb on sand or vermiculite and place in closed containers for disposal. When spilled, the floor may be slippery. Wipe up the spillage completely. Ventilate area and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

**Handling:** Do not breathe vapor. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

**Storage:** Keep tightly closed. Store at 2-8°C.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls:** Safety shower and eye bath.  
**Hand Protection:** Compatible chemical-resistant gloves.  
**Eye Protection:** Chemical safety goggles.  
**General Hygiene:** Wash contaminated clothing before reuse. Wash thoroughly after handling. Discard contaminated shoes.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical Appearance:</b> Liquid	<b>Relative Density:</b> No data
<b>Color:</b> Colorless	<b>pH:</b> No data
<b>Odor:</b> No data	<b>Flash Point:</b> No data
<b>Flammability:</b> No data	<b>Solubility:</b> No data

**10. STABILITY AND REACTIVITY**

**Stability:** Stable.  
**Conditions to Avoid:** No data.  
**Materials to Avoid:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Nature of decomposition products not known.

**11. TOXICOLOGICAL INFORMATION**

**Skin Contact:** May cause skin irritation.  
**Skin Absorption:** May be harmful if absorbed through the skin.  
**Eye Contact:** May cause eye irritation.  
**Inhalation:** May be harmful if inhaled.  
**Ingestion:** May be harmful if swallowed.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Conditions Aggravated by Exposure**

No data.

**Chronic Exposure Carcinogen**

No data.

**12. ECOLOGICAL INFORMATION**

No data available.

**13. DISPOSAL CONSIDERATIONS**

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before disposal.

**14. TRANSPORTATION INFORMATION**

**Complete Shipping Name:** No data.

**15. REGULATORY INFORMATION**

This product is not classified as a dangerous preparation according to 1999/45/EC, 67/548/EEC, 2001/58/EC directives and following amendments and modifications.

**S-phrases:** S 26 36/37/39 63/64  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of inhalation, remove casualty to fresh air. If swallowed, rinse mouth with water (only if the person is conscious).

**EEC-No.:** No data available

**Local regulations:** No data available

**16. OTHER INFORMATION**

**Risk Statements:** R 36/37/38  
Irritating to eyes, respiratory system and skin.

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# Component: DAB Chromogen

## Material Safety Data Sheet

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS#	Percent Composition	Classification: Indications of Danger / R Phrases
3,3' diaminobenzidine tetrahydrochloric acid	7411-49-6	2.5%	Xn / R22, R36/37/38
Pyrocatechol	120-80-9	7.5%	Xn / R21/22, R36/38

For indications of danger and R-phrases see Section 16.

### 3. HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed. Irritating to eyes and skin.

### 4. FIRST AID MEASURES

<b>Ingestion:</b>	If ingested, wash out mouth with water, provided person is conscious. Seek medical advice immediately. Do not induce vomiting.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice immediately.
<b>Skin:</b>	Immediately remove contaminated clothing and shoes. In case of skin contact, flush with plenty of water for at least 15 minutes.
<b>Eye:</b>	In case of contact with eyes, flush with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical advice immediately.

### 5. FIRE FIGHTING MEASURES

**Autoignition Temp:** N/A

**Firefighting Protective**

**Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s):** Thermal decomposition may produce toxic fumes.

### 6. ACCIDENTAL RELEASE MEASURES

**Procedure(s) of Personal Precaution(s)**

Wear enclosed footwear and chemical-resistant gloves.

**Methods for Cleaning Up**

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

**Handling:** Avoid inhalation of vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage:** Store at 2-8°C. Keep container tightly closed.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Safety shower and eye bath.

**Hand Protection:** Compatible chemical-resistant gloves.

**Eye Protection:** Chemical safety goggles.

# Component: DAB Chromogen

## Material Safety Data Sheet

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Appearance:</b>	Liquid	<b>Relative Density:</b>	No data
<b>Color:</b>	Brown	<b>pH:</b>	No data
<b>Odor:</b>	No data	<b>Flash Point:</b>	No data
<b>Flammability:</b>	No data	<b>Solubility:</b>	Fully miscible with water

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Materials to Avoid:</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products:</b>	
	Nature of decomposition products not known.

### 11. TOXICOLOGICAL INFORMATION

<b>Skin Contact:</b>	May cause skin irritation.
<b>Skin Absorption:</b>	May be harmful if absorbed through the skin.
<b>Eye Contact:</b>	May cause eye irritation.
<b>Inhalation:</b>	Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
<b>Ingestion:</b>	May be harmful if swallowed.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### 12. ECOLOGICAL INFORMATION

No data available.

### 13. DISPOSAL CONSIDERATIONS

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before disposal.

### 14. TRANSPORTATION INFORMATION

This substance is considered to be non-hazardous for transport.

### 15. REGULATORY INFORMATION

This product is not classified as a dangerous preparation according to 1999/45/EC, 67/548/EEC, 2001/58/EC directives and following amendments and modifications.

<b>S-phrases:</b>	S26, 36/37/39 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.
<b>EEC-No.:</b>	No data available.
<b>Local regulations:</b>	No data available.

**16. OTHER INFORMATION**

**Indications of danger:** To the best of our knowledge no hazards are associated with the use of this product.

**R-phrases:** R20/21/22 R36/37/38  
Harmful if inhaled, in contact with skin and if swallowed. Irritating to eyes respiratory system and skin.

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