# SAFETY DATA SHEET



### Peroxidase Blocking Solution

## Section 1. Identification

**GHS** product identifier : Peroxidase Blocking Solution

: GE001, GV800, GV823, GV900, K8000, K8002, K8023, S2023, SK005, SK006, SK032 Part no.

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

**Identified uses** 

: Laboratory use

Container type: Bottle

GE001 // EnVision FLEX Peroxidase-Blocking Reagent (Dako Omnis) // HercepTest

mAb pharmDx // 1 x 22.5mL

GV800 // EnVision FLEX Peroxidase-Blocking Reagent (Dako Omnis) // EnVision FLEX,

High pH (Dako Omnis) // 8 x 22.5 mL

GV823 // EnVision FLEX Peroxidase-Blocking Reagent (Dako Omnis) // EnVision FLEX

Mini Kit, High pH (Dako Omnis) // 2 x 22.5 mL

GV900 // EnVision FLEX Peroxidase-Blocking Reagent (Dako Omnis) // EnVision FLEX

HRP Magenta, High pH (Dako Omnis) // 8 x 22.5 mL

K8000 // EnVision FLEX Peroxidase-Blocking Reagent // EnVision FLEX, High pH (Link)

// 3 x 40 mL

K8002 // EnVision FLEX Peroxidase-Blocking Reagent // EnVision FLEX+, Mouse, High

pH, (Link) // 3 x 40mL

K8023 // EnVision FLEX Peroxidase-Blocking Reagent // EnVision FLEX Mini Kit, High

pH, (Link) // 1 x 40 mL

S2023 // Dako REAL Peroxidase-Blocking Solution // 1 x 250 mL

SK005 // Peroxidase-Blocking Reagent // PD-L1 IHC 28-8 pharmDx // 1 x 34.5 mL SK006 // Peroxidase-Blocking Reagent // PD-L1 IHC 22C3 pharmDx // 1 x 34.5 mL SK032 // Peroxidase-Blocking Reagent //MAGE-A4 IHC 1F9 pharmDx // 1 x 34.5 mL

Reference number: SDS151

Supplier/Manufacturer

: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

Tel: +1 800 227 9770

Agilent Technologies Singapore (International) Pte Ltd.

No. 1 Yishun Avenue 7 Singapore, 768923 Tel. (65) 6276 2622

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e-mail address of person responsible for this SDS

: SDS@Agilent.com

**Emergency telephone** number (with hours of

operation)

: CHEMTREC®: 1-800-424-9300

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## Section 2. Hazards identification

#### **OSHA/HCS** status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

#### Classification of the substance or mixture

Not classified.

#### **GHS label elements**

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.

**Other hazards** 

Hazards not otherwise

classified

: None known.

**Hazards identified when** 

used

: No known significant effects or critical hazards.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Synonyms	%	Identifiers
hydrogen peroxide	-	≥1 - ≤5	CAS: 7722-84-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

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### Section 4. First aid measures

Skin contactIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Trea

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: No specific data.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

training

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

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### Section 6. Accidental release measures

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

**Advice on general** occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

**Conditions for safe storage.** : Specific storage conditions: Please consult the label. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
nydrogen peroxide	NIOSH REL (United States, 10/2020)  TWA 10 hours: 1 ppm.  TWA 10 hours: 1.4 mg/m³.  CAL OSHA PEL (United States, 1/2025)  TWA 8 hours: 1.4 mg/m³ (as H202).  TWA 8 hours: 1 ppm (as H202).  OSHA PEL (United States, 5/2018)  TWA 8 hours: 1 ppm.  TWA 8 hours: 1.4 mg/m³.  OSHA PEL 1989 (United States, 3/1989)  TWA 8 hours: 1 ppm.  TWA 8 hours: 1.4 mg/m³.  ACGIH TLV (United States, 1/2024) A3.  TWA 8 hours: 1 ppm.  TWA 8 hours: 1 ppm.  TWA 8 hours: 1.4 mg/m³.

#### **Biological exposure indices**

No exposure indices known.

#### **Appropriate engineering** controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

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# Section 8. Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid.

Color : Colorless.

Odor : Pungent. [Slight]
Odor threshold : Not available.

pH : 6.8 to 7.2

Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling

range

: 105 to 120°C (221 to 248°F)

Flash point : Not applicable.
Evaporation rate : Not available.
Flammability : Not applicable.
Lower and upper explosion : Not available.

Lower and upper explosion limit/flammability limit

: 2.3 kPa (17.5 mm Hg) [Based on solvent.]

Relative vapor density : Not available.

Relative density : 1.1

Solubility(ies) : M

: Media Result
water Soluble

Miscible with water

Partition coefficient: n-

octanol/water

Vapor pressure

: Not applicable.

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# Section 9. Physical and chemical properties

Auto-ignition temperature Decomposition temperature

Not available.Not applicable.

**Viscosity** 

: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

**Particle characteristics** 

Median particle size : Not applicable.

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: May react or be incompatible with oxidizing materials.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# **Section 11. Toxicological information**

#### Information on toxicological effects

**Acute toxicity** 

Product/ingredient name Result

√drogen peroxide Rat - Female - Oral - LD50 693.7 mg/kg - 70%

solution

Rabbit - Male, Female - Dermal - LD50 >2000 mg/kg - 35%

solution

**Conclusion/Summary** 

[Product]

: Not available.

**Skin corrosion/irritation** 

**Conclusion/Summary** 

[Product]

: Not available.

Serious eye damage/eye irritation

**Conclusion/Summary** 

[Product]

: Not available.

Respiratory corrosion/irritation

**Conclusion/Summary** 

[Product]

: Not available.

Respiratory or skin sensitization

Skin

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# **Section 11. Toxicological information**

**Conclusion/Summary** 

[Product]

: Not available.

Respiratory

**Conclusion/Summary** 

[Product]

: Not available.

Germ cell mutagenicity

**Conclusion/Summary** 

[Product]

: Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary** 

[Product]

: Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
ydrogen peroxide	-	3	-

#### Reproductive toxicity

**Conclusion/Summary** 

: Not available.

Result

[Product]

### Specific target organ toxicity (single exposure)

Product/ingredient name

lydrogen peroxide SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory

tract irritation) - Category 3

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

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# **Section 11. Toxicological information**

### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

**Potential immediate** 

effects

Potential delayed effects

: Not available.

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

### Potential chronic health effects

**Conclusion/Summary** 

[Product]

: Not available.

General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### Acute toxicity estimates

Product/ingredient name	( 3	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ I)
,	21085.1	75987.8	N/A	334.3	N/A
	693.7	2500	N/A	11	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name Result

ydrogen peroxide Chronic - NOEC - Fresh water 0.63 mg/l [21 days]

Acute - EC50 - Marine water 1.2 mg/l [72 hours] Acute - EC50 - Fresh water 2320 µg/l [48 hours] Acute - LC50 - Fresh water 93 ppm [96 hours] 100 mg/l [28 days]

Chronic - NOEC - Fresh water

**Conclusion/Summary** 

[Product]

: Not available.

### Persistence and degradability

**Conclusion/Summary** : Not available.

[Product]

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ydrogen peroxide	-	-	Readily

#### **Bioaccumulative potential**

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# **Section 12. Ecological information**

Product/ingredient name	LogPow	BCF	Potential
ydrogen peroxide	-1.36	-	Low

**Mobility in soil** 

Soil/Water partition coefficient

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

DOT / TDG / Mexico / IMDG / : Not regulated.

IATA

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

# Section 15. Regulatory information

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

**U.S. Federal regulations** : Clean Water Act (CWA) 311: Disodium hydrogenorthophosphate

#### TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112

: Not listed

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602

: Not listed

Class I Substances

Clean Air Act Section 602

: Not listed

**Class II Substances** 

: Not listed

**DEA List I Chemicals** (Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) : Not listed

**SARA 302/304** 

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# **Section 15. Regulatory information**

### **Composition/information on ingredients**

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
ydrogen peroxide Sodium azide	≥1 - ≤5 ≤0.1	Yes. Yes.	1000 500	106.1	1000 1000	106.1

SARA 304 RQ : 30395.1 lbs / 13799.4 kg [3314 gal / 12544.9 L]

**SARA 311/312** 

Classification : Not applicable.

Composition/information on ingredients

Name	%	Classification
nydrogen peroxide	≥1 - ≤5	OXIDIZING LIQUIDS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Corrosive to digestive tract [severe]

#### State regulations

Massachusetts : The following components are listed: HYDROGEN PEROXIDE

New York : The following components are listed: Hydrogen peroxide

New Jersey : The following components are listed: HYDROGEN PEROXIDE

Pennsylvania : The following components are listed: HYDROGEN PEROXIDE

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Japan : Japan inventory (CSCL): All components are listed or exempted.

**Japan inventory (ISHL)**: All components are listed or exempted.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.

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# Section 15. Regulatory information

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.Viet Nam : All components are listed or exempted.

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
Not classified.	

#### **History**

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Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

DOT = Department of Transportation

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

TDG = Transportation of Dangerous Goods

**UN = United Nations** 

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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