



SAFETY DATA SHEET

SDS#: GS-30426 Rev A
Revision Date: 2018-11-29

Original Preparation Date: 2018-09-21

1. Identification

Product identifier Genemed Power Stain 1.0 Poly HRP DAB for Mouse and Rabbit Kit

Other means of identification

Product code 52-0017 and 54-0017

Recommended use For use with manual IHC staining

Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Sakura Finetek USA, Inc.

Address 1750 W 214th St
Torrance, CA 90501
United States

Telephone 1 (310) 972-7800

Emergency phone number Chemtrec, 1 (800) 424-9300

Email SDSSupport@SakuraUS.com

2. Hazard(s) identification

Physical hazards N/A

Health hazards Acute toxicity
Germ cell mutagenicity
Carcinogenicity

Environmental hazards Aquatic toxicity

OSHA defined hazards DAB
Acute toxicity, Oral, Category 4 - H302
Germ cell mutagenicity, Category 2 - H341
Carcinogenicity, Subcategory 1B - H350

Label elements

Hazard symbol



Signal word Danger

Hazard statement H302 Harmful if swallowed.
H312 Harmful in contact with skin
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention	P201 Obtain special instruction before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	P301+P312 IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell. P302+P352+P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. P308+P313 IF exposed or concerned, get medical advice/attention. P330 Rinse mouth. P362+P364 Take off contaminated clothing and wash before reuse. P391 Collect spillage.
Storage	P405 Store Locked up
Disposal	P501 Dispose of contents/container in accordance with local/regional/national/ international regulation.

Hazard(s) not otherwise classified (HNOC) None Known

3. Composition/information on ingredients

Mixtures: Mixtures

Chemical name	CAS number	Hazards	%
<u>DAB Substrate</u>			
Biphenyl-3,3',4,4'-tetrayltetraammonium tetrachloride	868272-85-9	Acute tox. 4 H302; Muta. 2 H341; Carc. 1B H350.	0.1%< (m/v) <1%
<u>Poly HRP-Conjugate</u>			
Proclin	N/A	N/A	(v/v) < 0.2%

4. First-aid measures

Inhalation	Move to fresh air. If not breathing give artificial respiration. Consult a physician.
Skin contact	Immediately wash skin with soap and copious amount of water and consult a physician.
Eye contact	Immediately flush eyes with copious amount of water for at least 15 minutes and consult a physician.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms/effects, acute and delayed	See sections 2 and 11.
Indication of immediate medical attention and special treatment needed	No data available
General Information	N/A

5. Fire-fighting measures

Suitable extinguishing media	Water spray, carbon dioxide, dry chemical powder or alcohol resistant foam.
Unsuitable extinguishing media	None known
Specific hazards arising from the chemical	Carbon oxides.
Special protective equipment and precautions for firefighters	No data available.
Fire-fighting equipment/instructions	Wear self-contained breathing apparatus and protective fire-fighting clothing.
Specific methods	No data available.

General fire hazards No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear Personal protective Equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Methods and materials for containment and cleaning up Stop leak and move containers from spill area if without risk. Do not let product enter drains. Keep in suitable closed containers for disposal.

Environmental precautions Do not let product enter drains. Do not discharge into the environment. Dispose in accordance with applicable local, regional, national and international laws and regulations. See section 13 for disposal.

7. Handling and storage

Precautions for safe handling Wear lab coat, chemical safety goggles, and gloves. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Store in closed container at 2-8°C.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
None	N/A	N/A	N/A

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
None	N/A	N/A	N/A

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Biological limit values	No Data available		

ACGIH Biological Exposure Indices

Components	Value	Determinant
None	N/A	N/A

Exposure guidelines N/A

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use of product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical safety goggles/glasses.

Skin protection

Hand protection Chemical resistant, impervious gloves should be worn at all times when handling this product.

Other Appropriate personal protective equipment for the body, foot and any additional skin protection measures should be selected based on the tasks being performed and risks involved.

Respiratory protection Use air purifying full-face particle respirator based on the tasks being performed and risks involved.

Thermal hazards N/A

General hygiene considerations Wash hands before and after use of product.

9. Physical and chemical properties

Poly HRP-anti-Mouse + Rabbit

Appearance

Physical state	
Form	Liquid
Color	Pink
Odor	No data available.
Odor threshold	No data available.
pH	7.3-7.7
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No data available.
Flammability limit – upper (%)	No data available.
Explosive limit - lower (%)	No data available.
Explosive limit - upper (%)	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.

DAB Substrate

Appearance

Physical state	
Form	Liquid
Color	DAB: Brown Buffer: Clear
Odor	No data available.
Odor threshold	No data available.
pH	DAB: 2.5-3.5 Buffer: 7.2-7.5
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.

Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No data available.
Flammability limit – upper (%)	No data available.
Explosive limit - lower (%)	No data available.
Explosive limit - upper (%)	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage and use conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon Oxides, Nitrogen Oxides, Hydrogen Chloride gas.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Unlikely when using appropriate personnel protective equipment and safety measures.
Skin contact	Unlikely when using appropriate personnel protective equipment and safety measures.
Eye contact	Unlikely when using appropriate personnel protective equipment and safety measures.
Ingestion	Unlikely when using appropriate personnel protective equipment and safety measures.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Poly HRP anti-Mouse + Rabbit and DAB Substrate.

Acute toxicity

Components	Species	Test Results
Skin corrosion/irritation		No data available.

Serious eye damage/eye irritation	No data available.
Respiratory or skin sensitization	
Respiratory sensitization	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
IARC Monographs. Overall Evaluation of Carcinogenicity	No data available.
NTP Report on Carcinogens	No data available.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Repeated dose toxicity	No data available.
Aspiration hazard	No data available.
Chronic effects	No data available.
Additional effects	No data available.

12. Ecological information

Poly HRP anti-Mouse + Rabbit and DAB Substrate.

Ecotoxicity	No data available.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No data available.

13. Disposal considerations

Disposal instructions

Waste from residues / unused products	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose in accordance with applicable local, regional, national and international laws and regulations. See Section 6 for cleanup procedures. See Sections 7 and 8 for additional handling information and protection of employees.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14. Transport information

DOT	Not regulated as a dangerous good.
UN number	N/A
UN proper shipping name	N/A

Transport hazard class(es)	N/A
Class	N/A
Subsidiary risk	N/A
Label(s)	N/A
IATA	N/A
UN Number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Class	N/A
Subsidiary risk	N/A
Packing group	N/A
Environmental hazards	N/A
ERG Code	N/A
Special precautions for user	N/A
IMDG	N/A
UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Class	N/A
Subsidiary risk	N/A
Packing group	N/A
Environmental hazards	N/A
Marine pollutant	N/A
EmS	N/A
Special precautions for user	N/A
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/A
General information	

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not listed
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
SARA 302 Extremely hazardous substance	Not subject to reporting requirements.
SARA 311/312 Hazardous chemical	<u>DAB Substrate</u> Acute Health Hazard and Chronic Health Hazard.
SARA 313 (TRI reporting)	This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels.
Other federal regulations	
Clean Air Act (CAA) Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489)	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act (CWA)

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US state regulations

US. Massachusetts RTK - Substance List

DAB Substrate
Biphenyl-3,3',4,4'-tetrayltetraammonium tetrachloride
CAS: 868272-85-9

US. New Jersey Worker and Community Right-to-Know Act

DAB Substrate
Biphenyl-3,3',4,4'-tetrayltetraammonium tetrachloride
CAS: 868272-85-9

US. Pennsylvania Worker and Community Right-to-Know Law

DAB Substrate
Biphenyl-3,3',4,4'-tetrayltetraammonium tetrachloride CAS: 868272-85-9

US. California Proposition 65

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 2018-09-21

Revision date 2018-11-29

Version # A

Further information HMIS is a registered trade and service mark of the American Coatings Association (ACA).

HMIS® ratings

DAB Substrate, DAB Intensifier, Poly HRP anti-Mouse + Rabbit

Health: 2

Flammability: 0

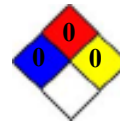
Physical hazard: 0

NFPA ratings

DAB Substrate + DAB Intensifier



Poly HRP anti-Mouse + Rabbit



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