

# Safety Data Sheet - Cover Page

The products listed below meet the criteria for classification as hazardous in accordance with The Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Please refer to the indicated Safety Data Sheet (SDS) for information concerning hazards and appropriate protective measures. SDS for products not classified as hazardous are available on request. Visit www.cellsignal.com for additional technical information and support.

Kit No.	Product name	
13079	Immunohistochemistry Application Solutions Kit	
Kit Component No.	Product name	
Kit Component No.	i roduct name	



SAFETY DATA SHEET (SDS): According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

## **SECTION 1. Identification**

#### **Product identifier**

Product No. 11725

Product name SignalStain® DAB Chromogen Concentrate

Other means of identification 11725P, 11725S

### Recommended use of the chemical and restrictions on use

**Identified uses**This product is intended for research purposes only.

**Uses advised against**This product is not intended for use in diagnostic procedures or therapeutics.

This product is not intended for use in humans or animals.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane

Danvers, MA 01923 TEL: +1 978 867 2300 FAX: +1 978 867 2400 www.cellsignal.com

Website www.cellsignal.com
Email address support@cellsignal.com

Company phone number 978-867-2300

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

## **SECTION 2. Hazard(s) identification**

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute inhalation toxicity	Category 4
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B

#### GHS Label elements, including precautionary statements



#### Signal Word

Danger

#### Hazard statement(s)

Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes serious eye irritation Suspected of causing genetic defects May cause cancer

### **Precautionary Statement(s)**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

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

IF exposed or concerned: Get medical advice/attention

Call a POISON CENTER or doctor/physician if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## **Supplementary Hazard Information**

Hazards not otherwise classified (HNOC) None.

Unknown Acute Toxicity 1.75% of the mixture consists of ingredient(s) of unknown acute toxicity.

## **SECTION 3. Composition/information on ingredients**

### **Chemical nature**

Liquid solution containing organic and inorganic compounds

Chemical Name	CAS No.	Weight %
biphenyl-3,3',4,4'-tetrayltetraammonium	7411-49-6	0.1-1
tetrachloride		
Nitriles and derivatives	Proprietary	0.5-1.5

#### Confidential business information

If CAS number is "proprietary", the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## **SECTION 4. First-aid measures**

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

InhalationMove to fresh air.IngestionRinse mouth.

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

No information available.

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

Treat symptomatically.

#### Advice for emergency responders

General advice For further assistance, contact your local Poison Control Center.

Protection of First-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions

to protect themselves.

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## **SECTION 5. Fire-fighting measures**

### **Extinguishing media**

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the chemical

No information available.

## **Explosion Data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6. Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ensure adequate ventilation.

Other information No information available.

### **Environmental precautions**

See Section 12 for additional information.

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

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

## **SECTION 7. Handling and storage**

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

Technical measures/Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

conditions

Packaging material No information available.

**Incompatible products**None known based on information supplied.

## **SECTION 8. Exposure controls/personal protection**

#### Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

Hygiene measures

Showers, eyewash stations, and ventilation systems.

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

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

**Eye/face protection**Safety glasses with side-shields.

Skin and body protection
Wear protective gloves/clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Revision Date: 2014-04-17

provided in accordance with current local regulations.

Do not eat, drink or smoke when using this product. Remove and wash contaminated

clothing before re-use.

## **SECTION 9. Physical and chemical properties**

## Information on basic physical and chemical properties

Physical state Liquid

Appearance No information available
Odor No information available
Color Purple, light pink

Odor Threshold
pH
No information available

range

Flash point No information available No information available **Evaporation rate** Flammability (solid, gas) No information available **Upper flammability limit** No information available No information available Lower flammability limit Vapor pressure No information available Vapor density No information available Relative density No information available Solubility No information available Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available No information available **Decomposition temperature** No information available **Explosive properties Oxidizing properties** No information available **VOC** content No information available **Viscosity** No information available **Density** No information available

## **SECTION 10. Stability and reactivity**

### Reactivity

No information available.

### **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Hazardous reactions None under normal processing.
Hazardous polymerization None under normal processing.

### **Conditions to Avoid**

No information available.

### **Incompatible Materials**

None known based on information supplied.

## **Hazardous Decomposition Products**

None known based on information supplied.

## **SECTION 11. Toxicological information**

## Information on likely routes of exposure

InhalationHarmful by inhalation.Eye contactIrritating to eyes.

Skin contact Harmful in contact with skin.

Ingestion Harmful if swallowed.

#### Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxocological and physiological properties of this compound is not well defined.

**Unknown Acute Toxicity** 1.75% of the mixture consists of ingredient(s) of unknown acute toxicity.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Symptoms** No information available.

Serious eye damage/eye

irritation

Irritating to eyes.

**Corrosivity**No information available. **Sensitization**No information available.

Mutagenic effects Substances which cause concern for man owing to possible mutagenic effects but for which

the available information is not adequate for making a satisfactory assessment.

Carcinogenicity Contains no ingredient listed as a carcinogen. Based on tumor data from a structural

analogue.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Neurological effects
Aspiration Hazard
No information available.
No information available.
No information available.
No information available.

## **SECTION 12. Ecological information**

## **Ecotoxicity**

Product does not present an aquatic toxicity hazard based on known or supplied information. 1.75% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradabilityNo information available.BioaccumulationNo information available.MobilityNo information available

### Other adverse effects

No information available.

## **SECTION 13. Disposal considerations**

## **Waste Disposal Methods**

Dispose of in accordance with all applicable national environmental laws and regulations.

## **Disposal considerations**

Do not empty into drains; dispose of this material and its container in a safe way.

## **SECTOIN 14. Transport information**

This material is not subject to regulation as a hazardous material for shipping.

## **SECTION 15. Regulatory information**

## **North American Inventory Listing**

Component	TSCA	DSL	NDSL
biphenyl-3,3',4,4'-tetrayltetraammoniu m tetrachloride 7411-49-6 ( 0.1-1 )	Listed	Listed	Not Listed
Nitriles and derivatives ( 0.5-1.5 )	Not Listed	Not Listed	Not Listed

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No

Reactive Hazard

No

**Revision Date: 2014-04-17** 

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

#### **U.S. EPA Label Information**

This product does not contain any substances regulated as pesticides.

## **SECTION 16. Other information**

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**