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

**Issuing Date:** 2014-02-10 **Revision Date:** 2014-02-11 **Version:** 1

## **SECTION 1. Identification**

#### **Product identifier**

Product No. 7018

Product name PathScan® Sandwich ELISA Lysis Buffer (1X)

Other means of identification 7018M, 7018P2, 7018S

### 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)

## Serious eye damage/eye irritation

Category 2A

## GHS Label elements, including precautionary statements



Signal Word Warning

Hazard statement(s)

Causes serious eye irritation

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

Wash face, hands and any exposed skin thoroughly after handling

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

# **Supplementary Hazard Information**

Hazards not otherwise classified (HNOC) Contact with acids liberates very toxic gas

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

#### **Chemical nature**

Aqueous solution of organic and inorganic compounds.

Chemical Name	CAS No.	Weight %
sodium fluoride	7681-49-4	0.1-1
tetrasodium pyrophosphate, decahydrate	13472-36-1	0.1-1
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	9002-93-1	0.5-1.5

## **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.

**Inhalation** Move to fresh air.

**Ingestion** Call a physician immediately. Do not induce vomiting without medical advice. Never give

anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek

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medical advice. Rinse mouth.

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

No information or data specific to the product on this toxicological (health) effect is available.

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

Notes to physician 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.

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

## **Extinguishing media**

**Suitable Extinguishing Media** Use:. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol-resistant foam. **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 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use

personal protective equipment.

Other information No information available.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

## 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 Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

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

### Precautions for safe handling

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols.

### Conditions for safe storage, including any incompatibilities

Technical measures/Storage Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled

**conditions** containers.

Packaging material No information available.

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

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

#### Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
sodium fluoride 7681-49-4	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m³ (vacated) TWA: 2.5 mg/m³	IDLH: 250 mg/m³ TWA: 2.5 mg/m³
tetrasodium pyrophosphate, decahydrate 13472-36-1	-	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m³ (Listed as: Tetrasodium pyrophosphate)

(vacated) = Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

## Appropriate engineering controls

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 Tightly fitting safety goggles. Skin and body protection Wear protective gloves/clothing.

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

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

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provided in accordance with current local regulations.

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

clothing before re-use. When using, do not eat, drink or smoke. Provide regular cleaning of

equipment, work area and clothing.

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

### Information on basic physical and chemical properties

Physical state Liquid

No information available Appearance Odor No information available

Color Clear

No information available **Odor Threshold** 

рH

Melting point/freezing point No information available Initial boiling point and boiling No information available

range

No information available Flash point **Evaporation rate** No information available Flammability (solid, gas) No information available **Upper flammability limit** No information available No information available Lower flammability limit No information available Vapor pressure Vapor density No information available No information available Relative density No information available Solubility 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 No information available **Viscosity** No information available **Density** 

## **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

InhalationThere is no data available for this product.Eye contactExpected to be an irritant based on components.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

#### 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.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium fluoride 7681-49-4	= 52 mg/kg ( Rat )	= 175 mg/kg (Rat)	-
tetrasodium pyrophosphate, decahydrate 13472-36-1	> 2000 mg/kg(Rat)	-	-
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her 9002-93-1	= 1,800 mg/kg (Rat)	= 8,000 mg/kg (Rabbit)	-

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

SymptomsNo information available.CorrosivityNo information available.SensitizationNo information available.Mutagenic effectsNo information available.

Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identifiable

as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
Developmental Toxicity
No information available.

# **SECTION 12. Ecological information**

## **Ecotoxicity**

99.02% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
sodium fluoride 7681-49-4	EC50 850 mg/L (Desmodesmus subspicatus) 72 h EC50 272 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 180 mg/L (Pimephales promelas) 96 h LC50 830 mg/L (Lepomis macrochirus) 96 h LC50 38 - 68 mg/L (Oncorhynchus mykiss) 96 h LC50 530 mg/L (Lepomis macrochirus) 96 h	EC50 338 mg/L (Daphnia magna) 48 h EC50 98 mg/L (Daphnia magna) 48 h
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her 9002-93-1		LC50: 8.9 mg/L (Pimephales promelas) 96 h	EC50: 26 mg/L (Daphnia) 48 h

Persistence and degradability Bioaccumulation Mobility No information available. No information available. No 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.

**California Waste Status** 

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste Status
sodium fluoride	Toxic
7681-49-4	

# **SECTOIN 14. Transport information**

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

# **SECTION 15. Regulatory information**

All of the components in the product are on the following Inventory lists:

TSCA -

NDSL Complies

## **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	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
sodium fluoride 7681-49-4	1000 lb			Х

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
sodium fluoride	1000 lb	
7681-49-4		

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
sodium fluoride 7681-49-4	Listed	Listed	Listed
tetrasodium pyrophosphate, decahydrate 13472-36-1	Listed	Listed	Listed

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

This product does not contain any substances regulated as pesticides.

# **SECTION 16. Other information**

**Issuing Date:** 2014-02-10 **Revision Date:** 2014-02-11

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** 

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