

**Safety Data Sheet (SDS)** According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

**Issuing Date:** 2014-01-31

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**Version:** 3

## SECTION 1. Identification

### Product identifier

**Product No** 12369  
**Product name** Nitrocellulose Sandwiches  
**UN number** UN3270

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

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

### Manufacturer, importer, supplier

**Manufacturer address** Cell Signaling Technology, Inc.  
3 Trask Lane  
Danvers, MA 01923  
United States  
TEL: +1 978 867 2300  
FAX: +1 978 867 2400  
**Website** www.cellsignal.com  
**Email address** support@cellsignal.com  
**Emergency telephone number** In case of emergency call CHEMTREC 1-800-424-9300

## SECTION 2. Hazard(s) identification

### Classification

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

<b>Flammable solids</b>	Category 1
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### GHS Label elements, including precautionary statements



**Signal Word**  
Danger

**Hazard statement(s)**

Flammable solid.

**Precautionary Statement(s)**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
 Use explosion-proof electrical/ventilating/lighting/equipment.  
 Ground/Bond container and receiving equipment.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish

**Supplementary Hazard Information****Hazards not otherwise classified (HNOC)**

Not applicable.

### SECTION 3. Composition/information on ingredients

Chemical name	CAS No	Weight-%
nitrocellulose, containing a maximum of 12,6 % nitrogen	9004-70-0	60-100

### SECTION 4. First-aid measures

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids.  
**Skin contact** Wash skin with soap and water.  
**Inhalation** Move to fresh air. If breathing is irregular or stopped, administer artificial respiration.  
**Ingestion** Clean mouth with water and afterwards drink plenty of water.

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

Respiratory irritation.

**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

### 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** None

**Specific hazards arising from the chemical**

Extremely flammable. Will be easily ignited by heat, sparks or flames.

**Explosion Data**

**Sensitivity to Mechanical Impact** Not impact sensitive  
**Sensitivity to Static Discharge** Yes

**Protective Equipment and Precautions for Firefighters**

In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**SECTION 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Use personal protective equipment.  
**Other information** Keep substance wet using water spray.  
**For emergency responders** Use personal protective equipment as required.

**Environmental precautions**

Should not be released into the environment. See Section 12 for more 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** Use personal protective equipment. Flush area with flooding quantities of water. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**SECTION 7. Handling and storage**

**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Take precautionary measures against static discharges. Remove all sources of ignition. Use according to package label instructions.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. For safety reasons in case of fire, cans should be stored separately in closed containments.  
**Packaging material** No information available  
**Incompatible products** Strong oxidizing agents, strong acids, and strong bases

**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**

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.

<b>Eye/face protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	Membrane
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
<b>pH</b>	No information available		
<b>Melting point/freezing point</b>	No information available		
<b>Boiling point or initial boiling point and boiling range</b>	No information available		
<b>Flash point</b>	No information available		
<b>Evaporation rate</b>	No information available		
<b>Flammability</b>	No information available		
<b>Lower explosion limit</b>	No information available		
<b>Upper explosion limit</b>	No information available		
<b>Vapor pressure</b>	No information available		
<b>Relative vapor density</b>	No information available		
<b>Density and/or relative density</b>	No information available		
<b>Solubility</b>	No information available.		
<b>Solubility in other solvents</b>	No information available.		
<b>Partition coefficient: n-octanol/water</b>	No information available		
<b>Autoignition temperature</b>	>160 °C		
<b>Decomposition temperature</b>	No information available		
<b>Viscosity</b>	No information available		
<b>Viscosity, dynamic</b>	No information available		

### Other information

<b>Softening point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC content</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available

## SECTION 10. Stability and reactivity

### Reactivity

Reacts with incompatible materials causing a fire and explosion hazard.

### Chemical stability

Stable under recommended storage conditions. Decomposes on heating.

#### Possibility of hazardous reactions

**Hazardous reactions** Exothermic reaction possible with strong oxidizers.  
**Hazardous polymerization** None under normal processing.

#### Conditions to Avoid

Heat, flames and sparks, Storage near to reactive materials

#### Incompatible Materials

Strong oxidizing agents, strong acids, and strong bases

#### Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions: Nitrogen oxides (NO<sub>x</sub>), Carbon oxides (CO<sub>x</sub>), Aldehydes.

## SECTION 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.  
**Eye contact** Not an expected route of exposure.  
**Skin contact** There is no data available for this product.  
**Ingestion** There 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 toxicological and physiological properties of this compound is not well defined.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
nitrocellulose, containing a maximum of 12,6 % nitrogen	> 5000 mg/kg ( Rat )	-	-

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

**Symptoms** Respiratory irritation.  
**Sensitization** No information available.  
**Mutagenic effects** No information available.  
**Carcinogenicity** The list below indicates any ingredient listed as a carcinogen:

Chemical name	IARC	NTP	OSHA
nitrocellulose, containing a maximum of 12,6 % nitrogen 9004-70-0	Group 2A	-	X

#### Legend:

IARC: (International Agency for Research on Cancer) *Group 2B - Possibly Carcinogenic to Humans*

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

## SECTION 12. Ecological information

### Ecotoxicity

**Persistence and degradability** No information available.  
**Mobility** No information available.  
**Bioaccumulation** Not likely to bioaccumulate.

### 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. Dispose of wastes in an approved waste disposal facility.

## SECTION 14. Transport information

### DOT

**UN number** UN3270  
**UN proper shipping name** Nitrocellulose membrane filters  
**Transport hazard class(es)** 4.1  
**Packing group** II

### IATA

**UN number** UN3270  
**UN proper shipping name** Nitrocellulose membrane filters  
**Transport hazard class(es)** 4.1  
**Packing group** II

## SECTION 15. Regulatory information

### North American Inventory Listing

Chemical name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
nitrocellulose, containing a maximum of 12,6 % nitrogen	Listed	Not Listed	Listed	Not Listed

### Canadian Workplace Hazardous Materials Information System (WHMIS) Classification

This product does not meet the criteria for classification under the Hazardous Products Act.

**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**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**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 contains the following U.S. State Right to Know chemicals:

<b>Chemical name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
nitrocellulose, containing a maximum of 12,6 % nitrogen	Listed	Listed	Listed

**U.S. FIFRA Label Information**

This product does not contain any substances regulated as pesticides.

**US Commerce Department - Export Administration Regulations Information**

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

**U.S. Drug Enforcement Administration Information**

This product does not contain any substances regulated under the DEA.

**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