

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

SECTION 1. Identification

Product identifier

Product No. 12369

Product name Nitrocellulose Sandwiches

UN number UN3270

DescriptionNitrocellulose Sandwiches from Cell Signaling Technology® are pre-packaged sandwiches

consisting of a precut nitrocellulose membrane and 2 sheets of 0.34 mm thick blotting paper

for protein detection during western blotting.

Other means of identification 12369M, 12369P, 12369P2, 12369S

Recommended use of the chemical and restrictions on use

Identified uses This product is intended for research purposes only.

Uses advised againstThis 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

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

Website

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

Flammable solids Category 1

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. Ground/Bond container and receiving equipment. Wear protective gloves/protective clothing/eye protection/face protection.

Supplementary Hazard Information

Hazards not otherwise classified (HNOC) None

SECTION 3. Composition/information on ingredients

Chemical nature Mixture of nitric esters of cellulose.

Common name Cellulose nitrate (nitrocellulose) containing a maximum of 12.6% nitrogen

Synonyms cellulose nitrate, nitrocellulose, nitrocellulose membrane filter.

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

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 Clean mouth with water and afterwards drink plenty of water.

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 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.

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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. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.

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).

During unexpected circumstances and elevated temperatures such as a fire, evacuate personnel to safe areas and use personal protective equipment to prevent exposure to

volatiles.

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 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

Use personal protective equipment. Flush area with flooding quantities of water. Take up

mechanically and collect in suitable container 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 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

conditions

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

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Process enclosure and/or ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side-shields.

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, Skin and body protection

as appropriate, to prevent skin contact.

Respiratory protection None required under normal usage. If exposure limits are exceeded or irritation is

experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory

protection must be provided in accordance with current local regulations. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

7 X 8.5 cm membrane **Appearance**

Odor Odorless

Color White to off-white No information available **Odor Threshold** No information available Ha No information available Melting point/freezing point 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 No information available Solubility in other solvents Partition coefficient: n-octanol/waterNo information available

>160 °C **Autoignition temperature**

No information available **Decomposition temperature Explosive properties** No information available **Oxidizing properties** No information available **VOC** content No information available **Viscosity** No information available **Density** No information available

SECTION 10. Stability and reactivity

Reactivity

Reacts with incompatible materials causing a fire and explosioin hazard.

Chemical stability

Stable under recommended storage conditions. Decomposes violently under high temperature.

Possibility of hazardous reactions

Hazardous reactions Exothermic reaction possible with strong oxidizers.

None under normal processing. Hazardous polymerization

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Conditions to Avoid

Heat, flames and sparks. Exposure to UV-rays. 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 (NOx), Carbon oxides, Aldehydes.

SECTION 11. Toxicological information

Information on likely routes of exposure

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.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
nitrocellulose, containing a maximum of 12,6 % nitrogen 9004-70-0	> 5 g/kg(Rat)	-	-

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

SECTION 12. Ecological information

Ecotoxicity

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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

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

DOT

UN3270 **UN** number Transport hazard class(es) 4.1 Ш **Packing Group**

Description UN3270, Nitrocellulose membrane filters, 4.1, II

Emergency Response Guide

Number

IATA

UN3270 **UN** number Transport hazard class(es) 4.1 **Packing Group** Ш **ERG Code** 3L

Description UN3270, Nitrocellulose membrane filters, 4.1, II

IMDG/IMO

UN number UN3270 Transport hazard class(es) 4.1 Packing group Ш EmS No. F-A, S-I

Description UN3270, Nitrocellulose membrane filters, 4.1, II

SECTION 15. Regulatory information

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

TSCA Complies

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DSL	Complies
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	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
nitrocellulose, containing a maximum of 12,6 % nitrogen	Listed	Listed	Listed
9004-70-0			

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.

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	End of Safety Data Sheet	

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