

Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200 Issuing Date: 2014-09-18 Revision Date: 2015-04-06

Version: 2

SECTION 1 Identification

Product identifier

7004 TMB Substrate 7004L, 7004S, 7004P, 7004P2, 7004P3, 7004P5

Recommended use of the chemical and restrictions on use

Identified uses Uses advised against This product is intended for research purposes only.
This product is not intended for use in diagnostic procedur.
This product is not intended for use in humans or animals.

edures or therapeutics

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

www.cellsignal.com support@cellsignal.com 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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity - single exposure (STOT SE)	Category 3

GHS Label elements, including precautionary statements



Signal Word

Hazard statement(s)
Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statement(s)

Page 1/7

7004 - TMB Substrate

Revision Date: 2015-04-06

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 Other information Ensure adequate ventilation. No information available.

Environmental precautions

See Section 12 for additional information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. 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 Incompatible products No information available. None known based on information supplied.

SECTION 8. Exposure controls/personal protection

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

Appropriate engineering controls

Control parameters

Showers, evewash 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 Skin and body protection Respiratory protection

Safety glasses with side-shields. Wear protective gloves/clothing. If exposure limits are exceeded or imitation is experienced, NIOSH/MSHA approved if exposure limits are exceeded or imitation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high arborne containmant concentrations. Respiratory protection must be provided in accordance with current Lost regulations. Handle in accordance with good industrial hygiene and safety practice.

Page 3/7

Hygiene measures

7004 - TMB Substrate Revision Date: 2015-04-06

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dustfrume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. IF ON SKIN: Vashs with plenty of soap and water. If skin irritation cocurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. 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.

IF INFIALED. Retitione vicinii to iresti an anu neep at rest in a position control doctor/physician if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to an approved waste disposal plant.

<u>Supplementary Hazard Information</u> No information available.

SECTION 3. Composition/information on ingredients

Chemical Name	CAS No	Weight %
3,3',5,5'-tetramethylbenzidine	54827-17-7	0.05
proprietary ingredient(s)	TRADE SECRET	10-30

Confidential business information The specific chemical identity and/or percentage of composition is being withheld as a trade

SECTION 4. First-aid measures

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Wash skin with scap and water. Move to fresh air. Clean mouth whit water and afterwards drink plenty of water. Eye contact

Skin contact Inhalation Ingestion

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

For further assistance, contact your local Poison Control Center.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. General advice Protection of first-aiders

SECTION 5. Fire-fighting measures

Extinguishing media

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

Page 2/7

Revision Date: 2015-04-06 7004 - TMB Substrate

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Intormation on basic physical are
Physical state
Appearance
Color
Odor
Odor
Odor
Threshold
PH
Melting point/freezing point
Initial boiling point and boiling
range
Flash point
Evaporation rate
Flammability (solid, gas)
Upper flammability limit
Lower flammability limit
Lower flammability limit
Lower flammability limit
Vapor pressure
Vapor density
Relatitve density Liquio
Clear
Light yellow
No information available
No information available
3.35 @ 20 °C
No information available
No information available

No information available. No information available. No information available. No information available. No information available No information available No information available. No information available in the information available in the information available. No information available. Vapor density
Relative density
Solubility
Solubility in other solvents
Partition coefficient: n-octan
Autoignition temperature
Decomposition temperature
Explosive properties
Oxidizing properties
VOC content
Viscosity
Density
Solubility in other solvents No information available No information available No information available No information available No information available

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

Conditions to Avoid

No information available

None known based on information supplied.

Hazardous Decomposition Products None known based on information supplied

SECTION 11. Toxicological information

Page 4/7

Revision Date: 2015-04-06 7004 - TMB Substrate

Information on likely routes of exposure

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Contact with eyes may cause irritation.

Contact with skin may cause irritation.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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 well defined.

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

Symptoms Skin corrosion/irritation Serious eye damage/eye No information available. Causes skin irritation. Causes serious eye irritation. irritation
Sensitization
Mutagenic effects
Carcinogenicity No information available. No information available.

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

Persistence and degradability
Bloaccumulation
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.

SECTION 14. Transport information

Page 5/7

7004 - TMB Substrate

Revision Date: 2015-04-06

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

Issuing Date: 2014-09-18 Revision Date: 2015-04-06 <u>Disclaimer</u>

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

Revision Date: 2015-04-06 7004 - TMB Substrate

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

SECTION 15. Regulatory information							
North American Inventory Listing							
Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL			
3,3',5,5'-tetramethylbenzidine	Listed	Not Listed	Listed	Not Listed			

Canadian Workplace Hazardous Materials Information System (WHMIS) Classification

(T)	Class D2B - Toxic Material at >= 1%

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

Ye
No
No
No
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 does not contain any substances regulated under applicable state right-to-know regulations

U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

US Commerce Department - Export Administration Regulations Information

Page 6/7