Cell Signaling TECHNOLOGY®

	SECTION 1. Identification	
Product identifier		
Product No. Product name	13844 Calcein AM	
Recommended use of the chemic	al and restrictions on use	
ldentified uses Uses advised against	This product is intended for research purposes only. 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 Darvers, MA 01923 United States TEL: +1 978 867 2300 FAX: +1 978 867 2400	
Website	www.cellsignal.com	
Email address	support@cellsignal.com 978-867-2300	
Company phone number Emergency telephone number	978-867-2300 In case of emergency call CHEMTREC 1-800-424-9300	

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 2A
Specific target organ toxicity - single exposure (STOT SE)	Category 3

GHS Label elements, including precautionary statements



Signal Word Warning

Hazard statement(s)

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SECTION 5. Fire-fighting measures

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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

SECTION 6. Accidental release measures					
Personal precautions, protective e	quipment and emergency procedures				
For non-emergency personnel Ensure adequate ventilation. Other information No information available.					
Environmental precautions					
Do not flush into surface water or san	itary sewer system.				
Methods and material for containm	ent 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 indu	strial hygiene and safety practice.				
Conditions for safe storage, includ	ing any incompatibilities				
Technical measures/Storage conditions	Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.				
Packaging material Incompatible products	No information available. None known based on information supplied.				
SEC	TION 8. Exposure controls/personal protection				
Control parameters					
This product, as supplied, does not co specific regulatory bodies.	ontain any hazardous materials with occupational exposure limits established by the region				

Appropriate engineering controls

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Causes skin irritation Causes serious eye irritation May cause respiratory irritation Precautionary Statement(s) Avoid breathing dust Precautionary Statement(s) Avoid treating dust Wash face, hands and any exposed skin thoroughly after handling Wear eyeface protection Use only outdoors or in a well-ventilated area IF ON SKIN: Wash with peltry of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated dufting 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Store in a well-ventilated place. Keep container tightly closed Store locked up Supplementary Hazard Information

Hazards not otherwise classified (HNOC) None

SECTION 3. Composition/information on ingredients				
Formula Molecular Weight Chemical nature Synonyms	Calcein AM; (ent substance 2TK8C8008; Calcein acetoxymethyl e bis(carboxymethyl)aminomethyl)fluore		
Chemical	Name	CAS No.	Weight %	
acetoxymethyl 2-[[2-(acetoxymethoxy)-2-oxo-ethyl]-[[3',6'-diacetoxy -7'-[[bis]2-(acetoxymethoxy)-2-oxo-ethyl]amino]met hyl]-3-oxo-spiro[isobenzofuran-1,9'-xanthene]-2'-yl] methyl]amino]acetate		148504-34-1	100	
	SECT	ION 4. First-aid measures		

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Advice for emergency responders

General advice Protection of First-aiders

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.

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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 provided in accordance with current local regulations.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. Physical and chemical properties

Physical state	Solid	
Appearance	Powder	
Odor	No information available	
Color	White	
Odor Threshold	No information available	
pH	No information available	
Melting point/freezing point	No information available	
nitial boiling point and boiling	No information available	
range		
Flash point	No information available.	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Upper flammability limit	No information available.	
Lower flammability limit	No information available.	
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/wa	erNo information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available.	
Explosive properties	No information available	
Oxidizing properties	No information available	
Molecular Weight	994.86 g/mol	
VOC content	No information available	
Viscosity	No information available.	
Density	No information available.	

Reactivity

No information available

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

Hazardous reactions None under normal processing. Revision Date: 2014-06-25

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Hazardous polymerization None under normal processing Conditions to Avoid

No information available

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None under normal use. Thermal decomposition can lead to release of irritating gases and vapors: Nitrogen oxides (NOx), Carbon oxides (COx).

SECTION 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation of respiratory tract. Eye contact Skin contact Ingestion Contact with eyes may cause irritation. Contact with skin may cause irritation. 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 toxocological and physiological properties of this compound is not 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 serous eye irritation.			
irritation Corrosivity Sensitization Mutagenic effects Carcinogenicity	No information available. No information available. No information available. No component of this product present at levels greater than or equal to 0.1% is identifiable			
Reproductive toxicity STOT - single exposure	as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA. No information available. Respiratory system.			
STOT - repeated exposure Neurological effects Aspiration Hazard	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 Product is biodegradable. Bioaccumulation No information available. Mobility No information available

Other adverse effects

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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

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 Γ

Issuing Date: 2014-06-25 Revision Date: 2014-06-25 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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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	9			
Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
acetoxymethyl 2-[[2-(acetoxymethoxy)-2-oxo-et hyl]-[[3',6'-diacetoxy-7'-[[bis[2-(a cetoxymethoxy)-2-oxo-ethyl]ami no]methyl]-3-oxo-spiro[[sobenzo furan-1,9'-xanthene]-2'-yl]methyl] amino]acetate	Not Listed	Not Listed	Not Listed	Not Listed

Canadian Workplace Hazardous Materials Information System (WHMIS) Classification



Class D2B: Skin/Eye Irritation - Reversible damage

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.

Yes No No No No

SARA 311/312 Hazard Categories

Acut	e Health Ha	zard			
Chro	nic Health	Hazard			
Fire I	lazard				
Sudo	en Release	of Press	ure Haza	ard	
Read	tive Hazard				

Clean Water Act

CERCLA

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).

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