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

Issuing Date: 2014-08-15 **Revision Date: 2014-09-02** Version: 2

# **SECTION 1. Identification**

#### Product identifier

9806 **Product number** 

**Product name** RIPA Buffer (10X)

**UN** number UN3082

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

Identified uses For research use only. Not for use in humans.

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 **United States** 

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

# Serious eye damage/eye irritation

Category 1

#### GHS Label elements, including precautionary statements



## Signal Word Danger

### Hazard statement(s)

Causes serious eye damage

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

Wear eye/face protection

Avoid release to the environment

Collect spillage

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Dispose of contents/container to an approved waste disposal plant

#### Supplementary Hazard Information

Hazards not otherwise classified (HNOC) Toxic to aquatic life with long lasting effects.

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

Chemical Name	CAS No	Weight %
tetrasodium pyrophosphate	7722-88-5	0.1-1
trometamol	77-86-1	1-5
sodium	302-95-4	5-10
3-alpha,12-alphadihydroxy-5beta-cholan-24-oate		
2-[2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethoxy]	9036-19-5	5-10
ethanol		

## **SECTION 4. First-aid measures**

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a

physician. Immediate medical attention is not required. Wash off immediately with soap and

plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air. If symptoms persist, call a physician. Immediate medical attention is not

required. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing.

Ingestion Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT

induce vomiting. Clean mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician. If swallowed,

do not induce vomiting - seek medical advice.

## 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 Immediate medical attention is not required. Show this safety data sheet to the doctor in

attendance. If symptoms persist, call a physician.

**Protection of first-aiders** Use personal protective equipment.

# **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 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

personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information No information available.

### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. 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 Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

After cleaning, flush away traces with water. Prevent product from entering drains. Dam up.

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

#### Precautions for safe handling

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

## Conditions for safe storage, including any incompatibilities

Technical measures/Storage

Keep container tightly closed. Keep out of the reach of children. Keep containers tightly

conditions closed in a cool, well-ventilated place. Keep in properly labeled containers.

Packaging material No information available.

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

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

## Control parameters

Occupational exposure limit values			
Chemical Name ACGIH TLV OSHA PEL NIOSH REL			
tetrasodium pyrophosphate	-	-	TWA: 5 mg/m <sup>3</sup>

#### Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

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#### 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.

Tightly fitting safety goggles. Face-shield. Eve/face protection

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.

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before Hygiene measures

re-use. 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 Clear **Appearance** 

Odor No information available

Color Colorless

**Odor Threshold** No information available

7.5 @ 20 °C

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. 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/waterNo information available No information available **Autoignition temperature** No information available. **Decomposition temperature** No information available **Explosive properties** Oxidizing properties No information available **VOC** content No information available **Viscosity** No information available. **Density** No information available.

#### 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. None under normal processing. Hazardous polymerization

#### **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

InhalationMay cause irritation of respiratory tract.Eye contactMay cause irreversible damage to eyes.Skin contactContact with skin may cause irritation.

**Ingestion** 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 is not well defined.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
tetrasodium pyrophosphate	> 2000 mg/kg	-	-
trometamol	5900 mg/kg (Rat)	-	-
sodium 3-alpha,12-alphadihydroxy-5beta-ch olan-24-oate	1370 mg/kg (Rat)	-	-
2-[2-[4-(2,4,4-trimethylpentan-2-yl)p henoxy]ethoxy]ethanol	1700 mg/kg (Rat)	-	-

ATEmix (oral) 6946 mg/kg

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

Symptoms No information available.
Serious eye damage/eye Risk of serious damage to eyes.

irritation

Sensitization No information available.

Mutagenic effects No 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
STOT - single exposure
STOT - repeated exposure
Chronic Toxicity
Neurological effects
Aspiration Hazard
No information available.
No information available.
No information available.
No information available.

## **SECTION 12. Ecological information**

#### **Ecotoxicity**

11.03% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

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Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
tetrasodium pyrophosphate	-	LC50 1,380 mg/L (Gambusia affinis) 96 h	•
trometamol	-	-	NOEC >100 mg/L (Selenastrum capricornutum) 96 h
2-[2-[4-(2,4,4-trimethylpentan-2-yl)p henoxy]ethoxy]ethanol	EC50 0.21 mg/L (Selenastrum) 96 h	LC50 7.2 mg/L (Oncorhynchus mykiss) 96 h	LC50 8.6 mg/L (Daphnia magna) 48 h

Persistence and degradability No data is available on the product itself. Results show, that both long and short chain

4-tert-OPnEO are not readily biodegradable usingstandard test methods.

**Bioaccumulation** No information available. No information available **Mobility** 

### Other adverse effects

In vitro studies for 4-tert-octylphenol ethoxylates and nonylphenol ethoxylates show that with increased chain length, ethoxylates decrease estrogen activity.

## **SECTION 13. Disposal considerations**

### **Waste Disposal Methods**

Should not be released into the environment. Dispose of in accordance with local regulations.

### **Disposal considerations**

Do not empty into drains; dispose of this material and its container in a safe way.

## **SECTION 14. Transport information**

### DOT

**UN** number UN3082

Environmentally hazardous substance, liquid, n.o.s. **UN proper shipping name** 

(2-[2-[4-(2,4,4,-trimethylpentan-2-yl)phenoxy]ethoxy]ethanol)

Transport hazard class(es)

Packing group

Special provisions 8, 146, 173, 335, IB3, T4, TP1, TP29

Emergency response guide 171

number

IATA

**UN** number UN3082

Environmentally hazardous substance, liquid, n.o.s. **UN proper shipping name** 

(2-[2-[4-(2,4,4,-trimethylpentan-2-yl)phenoxy]ethoxy]ethanol)

Transport hazard class(es)

Packing group Ш **ERG** code 9L

## **SECTION 15. Regulatory information**

#### **North American Inventory Listing**

Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL

tetrasodium pyrophosphate	Listed	Not Listed	Listed	Not Listed
trometamol	Listed	Not Listed	Listed	Not Listed
sodium 3-alpha,12-alphadihydroxy-5bet a-cholan-24-oate	Listed	Not Listed	Listed	Not Listed
2-[2-[4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethoxy]ethanol	Listed	Not Listed	Listed	Not Listed

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

<b>(T)</b>	Class D2B - Toxic Material at >= 1%
<b>—</b>	

#### **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 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

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**