

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

Issuing Date: 2019-10-24	Revision Date: 2024-05-01	Version: 2	
	SECTION 1. Identification		
Product identifier			
Product No Product name	47746 4% Formaldehyde, Methanol Free		
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 Website Email address Emergency telephone number	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 sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A

GHS Label elements, including precautionary statements



Signal Word Danger

Hazard statement(s)

May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer.

# Precautionary Statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Store locked up. Dispose of contents/container to an approved waste disposal plant.

#### **Supplementary Hazard Information**

# Hazards not otherwise classified (HNOC)

Not applicable.

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown acute toxicity

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

Chemical name	CAS No	Weight-%
Formaldehyde	50-00-0	4

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

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician.
Inhalation Ingestion	Move to fresh air in case of accidental inhalation of vapors. Consult a physician. Drink plenty of water. If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.

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

Eye irritation. Skin irritation. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

#### 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

## 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

For non-emergency personnel	Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Other information	No information available.

#### Environmental precautions

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	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	
<b>-</b> .	Clean contaminated surface thoroughly.	

# SECTION 7. Handling and storage

#### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

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

Technical measures/Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Packaging material Incompatible products	No information available. None known based on information supplied
incompatible products	None known based on information supplied

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

# Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Formaldehyde	Ceiling: 0.3 ppm	TWA : 0.75 ppm STEL: 2 ppm	IDLH : 20 ppm TWA : 0.016 ppm Ceiling: 0.1 ppm

#### Appropriate engineering controls

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	In case of inadequate ventilation wear respiratory protection.
Hygiene measures	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 Appearance Color	Liquid Clear Colorless
Odor	No information available
Odor Threshold	No information available
Property	<u>Values</u>
рН	7.4
Melting point/freezing point	No information available
Boiling point or initial boiling point	No information available
and boiling range	
Flash point	No information available
Evaporation rate	No information available
Flammability	No information available
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapor pressure	No information available
Relative vapor density	No information available
Density and/or relative density	No information available
Solubility	No information available.
Solubility in other solvents	No information available.
Partition coefficient: n-octanol/water	<ul> <li>No information available</li> </ul>
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Viscosity, dynamic	No information available
Other information	
	No information available
Softening point	No information available
Molecular Weight	
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available

Remarks Method @ 20 °C

# **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.
Hazardous polymerization	None under normal processing.

## Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition

## Incompatible Materials

None known based on information supplied

## Hazardous Decomposition Products

Carbon oxides (COx), Hydrogen chloride, Phosphorous oxides, Potassium oxides, Sodium oxides

# **SECTION 11. Toxicological information**

## Information on likely routes of exposure

Inhalation	Harmful by inhalation.	
Eye contact	Contact with eyes may cause irritation	
Skin contact	May cause sensitization by skin contact.	
Ingestion	May be harmful if swallowed.	

#### 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
Formaldehyde	= 100 mg/kg (Rat)	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat)4 h

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown acute toxicity.

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

Symptoms	Eye irritation. Skin irritation. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.
Serious eye damage/eye irritation	Irritating to eyes.

Sensitization Mutagenic effects Carcinogenicity	Substances which should This product contains one		to man. assified by IARC as carcinogenic oup 2A) or possibly carcinogenic
Chemical name	IARC	NTP	OSHA
Formaldehyde 50-00-0	1	Known	Х
Reproductive toxicity STOT - single exposure STOT - repeated exposure Neurological effects Aspiration Hazard	No information available. No information available. No information available. No information available. No information available.		

# **SECTION 12. Ecological information**

# **Ecotoxicity**

0% of the mixture consists of components of unknown hazards to the aquatic environment.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Formaldehyde	-	LC50 22.6 - 25.7 mg/L (Pimephales promelas) 96 h LC50 1510 µg/L (Lepomis macrochirus) 96 h LC50 23.2 - 29.7 mg/L (Pimephales promelas) 96 h LC50 0.032 - 0.226 mL/L (Oncorhynchus mykiss) 96 h LC50 100 - 136 mg/L (Oncorhynchus mykiss) 96 h LC50 41 mg/L (Brachydanio rerio) 96 h	EC50 11.3 - 18 mg/L (Daphnia magna) 48 h LC50 2 mg/L (Daphnia magna) 48 h

Persistence and degradability
Mobility
Bioaccumulation

No information available No information available

Chemical name	Octanol-Water Partition Coefficient
Formaldehyde	0.35

## 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**

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

# **SECTION 15. Regulatory information**

#### North American Inventory Listing

All components of this product are NOT included on the Toxic Substance Control Act (TSCA) Inventory, DSL, or NDSL All components of this product are NOT included on DSL or NDSL

Chemical name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
Formaldehyde	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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS No	SARA 313 - Threshold Values %
Formaldehyde	50-00-0	0.1

## SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances	CWA - Bioaccumulative Chemicals of Concern (BCCs)
Formaldehyde	100 lb	Not Listed	Not Listed	Listed	Not Listed

## CERCLA

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Formaldehyde	100 lb	100 lb

## California Proposition 65

Chemical name	California Prop. 65	
Formaldehyde	Carcinogen	

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Formaldehyde	Listed	Listed	Listed
disodium	Listed	Listed	Listed
hydrogenorthophosphate			

## 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