

This SDS complies with the US OSHA HCS 2012.

## 1. Product and Company Identification

**Product Code:** 0003306

**Product Name:** Formalin 10%

**Company Name:** CalibreScientific US, Inc.  
1311 SE Cardinal Ct Suite 170  
Vancouver, WA 98683

**Phone Number:** 1 (360)260-2779

**Web site address:** Alphatecsystems.com

**Email address:** Regulatory@calibrescientific.com

**Emergency Contact:** INFOTRAC  
International 00-1- (352)323-3500  
North America 1 (800)535-5053

**Information:**

**Intended Use:** For Laboratory Use Only

**Product List** Formalin 10% Product Code Also Applies to: X003320, X003362, 0003110, 0003324, 0003724, 0003102, 0003105, 0003335, 0003362.

## 2. Hazards Identification

Flammable Liquids, Category 2  
Acute Toxicity: Inhalation, Category 4  
Acute Toxicity: Oral, Category 4  
Skin Corrosion/Irritation, Category 2  
Skin Sensitization, Category 1  
Germ Cell Mutagenicity, Category 2  
Carcinogenicity, Category 1B  
Specific Target Organ Toxicity (single exposure), Category 1



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H225 - Highly flammable liquid and vapor.  
H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H332 - Harmful if inhaled.  
H341 - Suspected of causing genetic defects.  
H350 - May cause cancer .  
H370 - Causes damage to organs

**GHS Precautionary Phrases:** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 - Keep container tightly closed.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.

	P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P308+311 - If exposed or concerned: Call a POISON CENTER/Doctor/... P313 - Get medical advice/attention. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P330 - Rinse mouth. P332+313 - If skin irritation occurs, get medical advice/attention. P333+313 - If skin irritation or rash occurs, seek medical advice/attention. P362+364 - Take off contaminated clothing and wash it before reuse.
<b>GHS Storage and Disposal Phrases:</b>	P405 - Store locked up. P501 - Dispose of contents/container to safe area according to state and local guidelines.
<b>Potential Health Effects (Acute and Chronic):</b>	Chronic: Effects may be delayed. Possible risk of harm to the unborn child.
<b>Inhalation:</b>	The toxicological properties of this substance have not been fully investigated. Aspiration may lead to pulmonary edema. Inhalation at high concentrations may cause CNS depression and asphyxiation.
<b>Skin Contact:</b>	May cause skin irritation. May cause cyanosis of the extremities.
<b>Eye Contact:</b>	May cause eye irritation. May cause chemical conjunctivitis and corneal damage.
<b>Ingestion:</b>	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
50-00-0	Formaldehyde {Formalin (solution); Methyl aldehyde (gas)}	0.0 -3.7 %
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	0.0 -1.5 %
7558-79-4	Sodium phosphate, Dibasic {Phosphoric acid, disodium salt; Disodium, hydrogen phosphate}	100.0 -1000. PPM
7558-80-7	Monosodium phosphate	100.0 -1000. PPM

### 4. First Aid Measures

#### Emergency and First Aid Procedures:

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
<b>In Case of Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.
<b>Note to Physician:</b>	Treat symptomatically and supportively.

## 5. Fire Fighting Measures

<b>Flash Point:</b>	No data. Method Used: Estimate
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Use agent most appropriate to extinguish fire.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Combustible liquid. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated. Runoff from fire control or dilution water may cause pollution.
<b>Flammable Properties and Hazards:</b>	No data available.
<b>Hazardous Combustion Products:</b>	No data available.

## 6. Accidental Release Measures

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.
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## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Wash thoroughly after handling. Use only in a well-ventilated area. Use with adequate ventilation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, and clothing. Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
<b>Precautions To Be Taken in Storing:</b>	Keep away from heat, sparks and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
50-00-0	Formaldehyde {Formalin (solution); Methyl aldehyde (gas)}	PEL: 0.75 ppm STEL: 2 ppm (15 min)	CEIL: 0.3 ppm	No data.
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.
7558-79-4	Sodium phosphate, Dibasic {Phosphoric acid, disodium salt; Disodium, hydrogen phosphate}	No data.	No data.	No data.
7558-80-7	Monosodium phosphate	No data.	No data.	No data.

<b>Respiratory Equipment (Specify Type):</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Eye Protection:</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas    [ X ] Liquid    [ ] Solid		
<b>Appearance and Odor:</b>	Colorless/Clear. formaldehyde.		
<b>pH:</b>	No data.		
<b>Melting Point:</b>	No data.		
<b>Boiling Point:</b>	No data. /    0.0    mm Hg		
<b>Flash Point:</b>	No data.    Estimate		
<b>Evaporation Rate:</b>	No data.		
<b>Flammability (solid, gas):</b>	No data available.		
<b>Explosive Limits:</b>	LEL: No data.		UEL: No data.
<b>Vapor Pressure:</b>	No data.		
<b>Vapor Density (vs. Air=1):</b>	No data.		
<b>Specific Gravity (Water=1):</b>	No data.		
<b>Solubility in Water:</b>	No data.		
<b>Saturated Vapor Concentration:</b>	No data.		
<b>Octanol/Water Partition Coefficient:</b>	No data.		
<b>Autoignition Pt:</b>	No data.		
<b>Decomposition Temperature:</b>	No data.		
<b>Viscosity:</b>	No data.		

**10. Stability and Reactivity**

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid -** Incompatible materials, ignition sources, Excess heat.

**Instability:**

**Incompatibility - Materials To Avoid:** Moisture.

**Hazardous Decomposition or Byproducts:** Nitrogen oxides, Carbon monoxide.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

**11. Toxicological Information**

**Toxicological Information:** Epidemiology: No information found.  
Teratogenicity: No information available. Reproductive Effects: Mutagenicity:  
Neurotoxicity:

**Carcinogenicity/Other Information:** CAS# 51219-89-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

**12. Ecological Information**

No data available.

**13. Disposal Considerations**

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

**14. Transport Information**

**GHS Classification:** Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor  
Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled  
Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed  
Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation  
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction  
Germ Cell Mutagenicity, Category 2 - Warning! Suspected of causing genetic defects  
Carcinogenicity, Category 1B - Danger! May cause cancer  
Specific Target Organ Toxicity (single exposure), Category 1 - Danger! Causes damage to organs {<target organs>}

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

**LAND TRANSPORT (Canadian TDG):**

TDG Shipping Name: Not Regulated.

UN Number:

Hazard Class:

TDG Classification:

**LAND TRANSPORT (European ADR/RID):**

ADR/RID Shipping Name: Not Regulated.

UN Number:

Hazard Class:

**AIR TRANSPORT (ICAO/IATA):**

ICAO/IATA Shipping Name: Not Regulated.

UN Number:

Hazard Class:

Packing Group:

**15. Regulatory Information****EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
50-00-0	Formaldehyde {Formalin (solution); Methyl aldehyde (gas)}	Yes 500 LB	Yes NA	Yes
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	No	Yes NA	Yes
7558-79-4	Sodium phosphate, Dibasic {Phosphoric acid, disodium salt; Disodium, hydrogen phosphate}	No	Yes NA	No
7558-80-7	Monosodium phosphate	No	No	No

CAS #	Hazardous Components (Chemical Name)
50-00-0	Formaldehyde {Formalin (solution); Methyl aldehyde (gas)}
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}
7558-79-4	Sodium phosphate, Dibasic {Phosphoric acid, disodium salt; Disodium, hydrogen phosphate}
7558-80-7	Monosodium phosphate

**Other US EPA or State Lists**

CA PROP.65: Yes: Canc.; MA Oil/HazMat: Yes; NJ EHS: Yes - 0946; PA HSL: Yes - B

CA PROP.65: Yes: RDTox.; MA Oil/HazMat: Yes; NJ EHS: Yes - 1222; PA HSL: Yes - E

CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - E

CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No

**16. Other Information**

Revision Date: 04/23/2025

Previous revision: 03/07/2025

Preparer Name: A. Frontella

Additional Information About No data available.

This Product:

Document &amp; Change Control SDS0136.F.1.

Number

Company Policy or

Disclaimer:

Disclaimer

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