



Formalin 4% Solution

Section 1: Identification of the substance/mixture & of the company/undertaking

1.1 Product Identification

Product Name	Formalin 4% Solution
Synonyms	Formaldehyde, Methanal
Cat No.	Used as an initial fixative for preserved chordata.
REACH No.	N/A
CAS No.	50-00-0
Molecular Formula	HCHO

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Laboratory chemicals
-----------------	----------------------

1.3. Details of the supplier of the safety data sheet

Company	Darwin Biological
Address	Shawbury House, Shawbury, Shrewsbury, Shropshire, SY4 4NL UK
Contact	01939 250252 hello@darwinbiological.co.uk
Emergency Phone No.	112

Section 2: Hazard Identification

2.1 Classification of the substance or mixture CLP Classification - Regulation (EC) No 1272/2008

H341, H317, H370

2.2 Label Elements Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word

Danger

Hazard Statement(s)

H341 - Suspected of causing genetic defects
H317 - May cause an allergic skin reaction
H350 - May cause cancer

Precautionary Statement(s)

P280 - Wear protective gloves.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.

Section 3: Composition/Information on ingredients

3.1 Substances

Component	Hazard Classification	Concentration
Water CAS No: 7732-18-5	N/A	>95%
Methanol, Methyl Alcohol CAS No: 67-56-1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370	<1%
Formaldehyde CAS No: 50-00-0	Acute Tox. 1 (Inhalation:gas), H330 Carc. 1A, H350	<4%



Darwin Biological SAFETY DATA SHEET

Section 4: First aid measures

General Advice	If unwell seek medical advice, show this SDS/product label.
If inhaled	Move person into fresh air. If not breathing, give artificial respiration. See medical advice
In case of skin contact	Wash off with soap and plenty of water. See medical advice
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. See medical advice
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Seek medical attention.

Section 5: Firefighting measures

5.1 Extinguishing media	Use extinguishing measures that are appropriate to circumstances and the surrounding environment
5.2 Special hazards arising from substances or mixture	No data available
5.3 Advice for firefighters	Wear suitable respiratory equipment if necessary

Section 6: Accidental release measures

6.1 Personal precaution, protective equipment & emergency procedures	Wear suitable protective clothing. Avoid breathing vapours, mist or gas. Ensure adequate ventilation of the working area.
6.2 Environmental precautions	If safe to do so, prevent further leakage or spillage. Do not let product enter drains.
6.3 Methods & materials for containments & cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Transfer to suitable, labelled containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
7.2 Conditions for safe storage, including any incompatibilities	Store in cool place out of direct sunlight. Keep container closed in a dry and well-ventilated place. Always store in a properly labelled appropriate container.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Water CAS No: 7732-18-5	Long Term (8hr TWA): N/A	Short Term (15min STEL): N/A
Methanol, Methyl Alcohol CAS No: 67-56-1	Long Term (8hr TWA): 260mg/m ³	Short Term (15min STEL): 200ppm
Formaldehyde CAS No: 50-00-0	Long Term (8hr TWA): 0.75ppm	Short Term (15min STEL): 2ppm

Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used. Figures are based upon UK EH40 WEL (Workplace Exposure Limits)

8.2 Exposure Controls

Engineering Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area. Ensure quickly accessible eye-wash stations are available.
Eye / face protection	Wear appropriate well-fitting protective eyeglasses or chemical safety goggles as described by EN166 (EU Standard)



Darwin Biological SAFETY DATA SHEET

Skin / hand protection	Wear appropriate protective gloves and clothing to prevent skin exposure. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact.
Respiratory protection	Use a EN149 (EU Standard) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9: Physical and chemical properties

State	Liquid	Chemical Formula	No data available
Appearance	Colourless	Molecular Weight	No data available
Odour	Pungent Odour	Relative Density	No data available
Melting Point	No data available	Boiling Point	No data available

Section 10: Stability & Reactivity

10.1 Reactivity	Stable under recommended transport or storage conditions.
10.2 Chemical Stability	Stable under normal conditions. Stable at room temperature.
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
10.4 Conditions to avoid	Incompatible materials. Heat. Sparks. Open flame.
10.5 Incompatible materials	Strong bases. Strong oxidising agents. Strong acids. Metals.
10.6 Hazardous decomposition products	Carbon dioxide. Carbon monoxide. Hydrogen. Formaldehyde.

Section 11: Toxicological Information

11.1 Information on toxicological effects	There may be irritation and redness at the site of contact. Ingestion may cause stomach pain and vomiting.
---	--

Section 12: Ecological Information

12.1 Toxicity	No data available
12.2 Persistence & degradability	Biodegradable

Section 13: Disposal Considerations

General Information	Dispose of in compliance with all local and national regulations.
Disposal Methods	Transfer to a suitable container and arrange for collection by specialised disposal company.

Section 14: Transport Information

14.1 UN Number	UN1198
14.2 Shipping Name	Formalin 4% Solution
14.3 Transport Class	N/A
14.4 Packing Group	N/A
14.5 Environmental Hazards	N/A

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	Labelling according to Regulation (EC) No 1272/2008.
---	--

Legal Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Darwin Biological shall not be held liable for any damage resulting from handling or from contact with the above product.