



Safety Data Sheet

Date of Issue: 19.06.2020

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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name: ECP Limited
Address: PO Box 34125, Birkenhead, Auckland 0746
Telephone: +64 9 480 4386
Facsimile: +64 9 480 4385
Emergency phone number: 0800 243 622 (24 hours)

Product	Neutral Buffered Formalin 10%	Code	33968
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Recommended use: Histology Laboratory fixative

2. Hazards identification

Statement of hazardous nature: This product is HAZARDOUS IN THIS FORM AND AT THIS STRENGTH. Handle correctly and as directed by this SDS.
Classified as non – Dangerous for Land and Rail Transport.

Hazard Pictograms



Signal Word : **Danger**

Hazard Statement

H302 – Harmful if swallowed
H317 – May cause an allergic reaction
H341 – Suspected of causing genetic defects
H332 – Harmful if inhaled
H350 – May cause cancer by inhalation

Precautionary statements

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing gas, mist, vapors, spray.
P264 - Wash exposed skin thoroughly after handling.

P272 -	Contaminated work clothing should not be allowed out of the workplace.
P273 -	Avoid release to the environment.
P280 -	Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 -	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 -	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 -	IF exposed or concerned: Get medical advice/attention.
P310 -	Immediately call a poison centre or doctor/physician.
P333+P313 -	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 -	Take off contaminated clothing and wash it before reuse.

3. Composition/information on ingredients

Chemical Name:	Proportion:	CAS Number:
Formaldehyde	<10%	7732-18-5
Monosodium Phosphate	<1%	7558-80-7
Disodium Hydrogen Phosphate	<1%	7558-79-4
Water	< 90%	7732-18-5

4. First aid measures

If poisoning occurs contact a doctor or Poisons Information Centre.

Swallowed: If a minor amount has been accidentally swallowed, then, if conscious, rinse mouth with water and then dilute stomach contents by giving large amounts of water. Seek medical attention. Do not attempt to induce vomiting or give anything by mouth to an unconscious person. If person vomits place person on their side in recovery position.

Eyes: Flush eye with flowing water for a minimum of 15 minutes. Seek medical attention promptly if irritation persists or any loss of vision occurs. **Skin:** Remove contaminated clothing. Wash contaminated skin with water. Seek medical attention if irritation persists. Launder contaminated clothing before re-use.

Inhaled: Remove promptly to fresh air. If there are signs of drunkenness (intoxication or inebriation) or respiratory irritation, dizziness, nausea or headache occurs, seek immediate medical attention. Treat unconsciousness by placing the person in the coma position. Apply artificial respiration if breathing stops.

First Aid Facilities: Safety showers, eye wash stations and First Aid kits.

Advice to Doctor: Treat symptomatically and as for a narcotic substance.

5. Firefighting measures

Flammability: Non flammable product

Suitable extinguishing media: Alcohol-resistant foam is the preferred firefighting medium but, if it is not available, fine water spray can be used. Water fog, dry chemical or carbon dioxide may also be used. Hazards from combustion

products: Not applicable

Special protective precautions and equipment for fire fighters: Breathing apparatus is required. Spills and leaks may be washed away with copious volumes of water, fog or spray

HAZCHEM Code: Non allocated

6. Accidental release measures

Emergency Procedure: Wear suitable protective clothing and breathing apparatus in the event of vapours being produced.

Containment Procedure: Stop and contain the spill for salvage or absorb in inert absorbent material (e.g. Soil, sand, vermiculite) for disposal by an approved method. Prevent run-off into drains and waterways.

If contamination of sewers or waterways has occurred, advise the local emergency services.

Clean Up Procedure: Wash the cleaned-up area with copious volumes of water to remove any trace amounts of product. Use water spray to reduce vapours.

7. Handling and storage

Handling: Avoid contact with eyes and skin. Avoid breathing vapours. Use in a well ventilated area. Wash hands after use.

Storage: Store in tightly closed containers in cool, dry, isolated and well-ventilated area.

Do not eat, drink or smoke in areas of use or storage. Observe State Regulations concerning the storage and handling of Dangerous

8. Exposure controls/personal protection

8.1 Control parameters

Exposure Standards: National Occupational Exposure Standard (NES), Safe Work New Zealand

(Formaldehyde)

TWA - 1 ppm (1.2 mg/m³)

STEL - 2 ppm (2.5 mg/m³)

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9. Physical and chemical properties

Appearance	:	Clear colourless liquid
Odour	:	Characteristic pungent odour
pH, at stated concentration	:	7.0
Vapour Pressure	:	Not available
Vapour Density	:	Not available
Boiling Point/range (°C)	:	98°C
Freezing/Melting Point (°C)	:	-8°C
Solubility	:	Complete
Specific Gravity (H ₂ O = 1)	:	1.02 (Water = 1)
Flammable materials	:	Non-flammable

10. Stability and reactivity

Chemical Stability: Stable

Incompatible Materials: Will react with strong oxidizing agents.

Conditions to avoid: Heat, light

Hazardous Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide. **Hazardous Reactions:** Hazardous polymerisation will not occur.

11. Toxicological information

Effects: Acute

Swallowed: Accidental swallowing is unlikely in the industrial setting.

Eyes: Vapours may irritate the eyes. Liquid and mists may severely irritate or damage the eyes.

Skin: Contact with skin may result in slight irritation and redness.

Inhaled: Vapour is moderately irritating to mucous membranes and respiratory tract. Inhalation of the vapour may result in headache, nausea, incoordination, narcosis (sleepiness) and vomiting.

Effects: Chronic

Long term exposure by swallowing or repeated inhalation may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.

Prolonged or repeated contact and heavy skin contamination may cause skin drying and cracking and/or dermatitis with redness, itching, and swelling. This may lead to secondary infection. Ongoing or repeated exposures at high concentrations may cause central nervous system symptoms similar to "Acute: Swallowed" above. Deliberate inhalation of the vapour is a known occupational risk.

12. Ecological information

Eco-toxicity: No data available

Persistence and Degradability: No data available

Mobility: No data available

13. Disposal considerations

Disposal must be in accordance with local waste authority requirements

14. Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	-	-	-
14.2	UN Proper Shipping name	-	-	-
14.3	Transport Hazard Class	-	-	-
14.4	Packaging group	-	-	-
14.5	Environmental Hazards			
14.6	Special precautions for user	None		

15. Regulatory information

Poison Schedule : None Allocated

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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