Safety Data Sheet

Date of Issue: 03.09.2024 Date of Expiry: 03.09.2029

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**

Product Name	**Neutral Buffered Formalin 10% (of a 37% solution = 3.7% max)**
Product Code	33968
CAS No.	See section 3 composition
HSNO Approval No. [EPA Approval no.]	HSR001518

Recommended use: Histology Laboratory fixative

2. Hazards identification

2.1 GHS Classification Flammable liquids (Category 4), H227 Skin sensitization (Category 1), H317 Germ cell mutagenicity (Category 2), H341 Carcinogenicity (Category 1), H350 Specific target organ toxicity - repeated exposure (Category 2), H373 9.2A - Substances that are very ecotoxic in the soil environment

2.2 GHS Label elements, including precautionary statements

Pictogram 

Signal Word **Danger**

Hazard Statement

H317 - May cause an allergic skin reaction
H333 - May be harmful if inhaled

H341 - Suspected of causing genetic defects if inhaled
H350 - May cause cancer
H371 - May cause damage to organs
H361 - Suspected of damaging fertility or the unborn child

Precautionary statements

P201 -	Obtain special instructions before use.
P202 -	Do not handle until all safety precautions have been read and understood.
P260 -	Do not breathe dust/fume/gas/mist/vapors/spray
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.

3. Composition/information on ingredients

Chemical Name:	Proportion:	Classification
Formaldehyde CAS # 7732-18-5 EC#200-001-8	>= 3 - <3.7%	>= 0.2 %: Skin Sens. 1, H317; >= 0.25 %:Skin Corr./Irrit. 2, H315; >= 0.25 %: Eye Dam./Irrit. 2, H319; >= 0.25 %: Skin Sens. 1, H317; >= 1 %: Muta. 2, H341; >= 1 %: Carc. 1, H350; > 1 - 5 %: STOT RE 2, H373;
Monosodium Phosphate CAS # 7558-80-7	<1%	
Disodium Hydrogen Phosphate CAS # 7558-79-4	<1%	
Water CAS # 7732-18-5	94-95%	

4. First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
6.2 Environmental precautions
Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material. Dispose of properly. Clean up affected area.

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 (H2O = 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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