SDS Phenolphthalein Solution

Date of Issue: 26/02/2020 Expiry: 01/03/2025

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name **ECP Limited**

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Product	Phenolphthalein solution			**Code**	40417		
CAS#	**HSNO#**	**UN #**	**DG Class/es**	**Packing group #**		**Tracking?**	**Handlers Certificate?**
77-09-8	HSR005374	1170	3	III		No	No

Recommended use: Laboratory Investigations

2. Hazards identification

New Zealand hazards classification: 6.7B.

2.1 GHS Classification

Flammable Liquids (Category C)

Eye irritation (Category A)

Carcinogenicity (Category A)

Toxic to Reproduction (Category B)

2.2 GHS Label elements, including precautionary statements

Pictogram 

Signal word **Danger**

Hazard statement(s)

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

Prevention

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.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Disposal
P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

3.1 Mixtures

Formula: $C_{20}H_{14}O_4$

Molecular weight: 318.32 g/mol

Component	Classification	Concentration
Ethanol		
CAS No. 64-17-5	3.1 B; 6.4 A; H225, H319	>=50 - <70%
Phenolphthalein		
CAS No. 77-09-8	6.6 B; 6.7 A; 6.8 B; H341, H350, H361	>=0.1 - <1%

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Central nervous system depression, nausea, dizziness, narcosis.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal.

7. Handling and storage
7.1 Precautions for safe handling
Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits Table

Component	**CAS No.**	**Value**	**Control parameters**	**Basis**
Ethanol	64-17-5	WES-TWA	1000ppm 1880 mg/m^3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants.

8.2 Exposure controls
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
9.1 Information on basic physical and chemical properties
a) Appearance
Form: clear, liquid
Colour: colourless
b) Odour

Alcohol-like
c) pH
7
d) Melting point/freezing point
-35 °C
e) Initial boiling point and boiling range
80 °C
f) Flash point
24 °C - closed cup
g) Relative density
0.918 g/cm^3 at 25 °C
h) Water solubility
Completely miscible

10. Stability and reactivity
10.1 Conditions to avoid
Heat, flames and sparks.
10.2 Incompatible materials
Oxidizing agents, alkali metals, strong oxidizing agents, ammonia, peroxides.

11. Toxicological information
11.1 Information on toxicological effects
Carcinogenicity
IARC: 2B - Group 2B: Possibly carcinogenic to humans
Potential health effects
Inhalation
May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion
May be harmful if swallowed.
Skin
May be harmful if absorbed through skin. May cause skin irritation.
Eyes
Causes serious eye irritation.
Signs and Symptoms of Exposure
Central nervous system depression, nausea, dizziness, narcosis.

12. Disposal considerations
12.1 Waste treatment methods
Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

13. Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
13.1	**UN Number**	1170	1170	1170
13.2	**UN Proper Shipping name**	ETHANOL SOLUTION	ETHANOL SOLUTION	Ethanol solution
13.3	**Transport Hazard Class**	3	3	3
13.4	**Packaging group**	III	III	III
13.5	**Environmental Hazards**	No	No	No
13.6	**Special precautions for user**	None		

14. Regulatory information

14.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulatory information
HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006
Tracking Required: not required
Approved Handler Cert.: not required

15. 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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