SDS Glycerol

Date of Issue: 29/01/2020 Expiry: 01/02/2025

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name ECP Limited

Address: 39 Woodside Ave, Northcote, Auckland, New Zealand

Product	Glycerol				Code	24388, 25501, 3972		
CAS#		HSNO#	UN#	DG	Packing group #		Tracking?	Handlers
				Class/es				Certificate?
56-81-5		NA	NA	NA		NA	No	No

Recommended use: Laboratory Investigations

2. Hazards identification

New Zealand hazards classification: Not a hazardous substance.

3. Composition/information on ingredients

3.1 Substances

Synonyms:

1,2,3-Propanetriol

Glycerin

Formula: C₃H₈O₃

Molecular weight: 92.09 g/mol

CAS No.: 56-81-5

4. First aid measures

4.1 Description of first aid measures

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid breathing vapours, mist or gas.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

8. Exposure controls/personal protection

8.1 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

Eve/face protection

Not required.

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

Impervious clothing.

Respiratory protection

Not required.

Control of environmental exposure

No special environmental precautions required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

Colour: clear b) Odour

Odourless

c) pH 5.5 - 8

d) Melting point/freezing point Melting point/range: 20 °C

e) Initial boiling point and boiling range

182 °C at 27 hPa f) Flash point

160 °C - closed cup

g) Upper/lower flammability or explosive limits Upper explosion limit: 19 %(V) at 1013 hPa Lower explosion limit: 2,7 %(V) at 1013 hPa

h) Vapour pressure

0.0033 hPa at 50 °C

i) Vapour density

3.18 - (Air = 1.0)

j) Relative density

1.25 g/mL

k) Water solubility

Soluble

I) Surface tension

63.4 mN/m at 20 °C

10. Stability and reactivity

10.1 Chemical stability

Stable under recommended storage conditions.

10.2 Incompatible materials

Strong bases, strong oxidizing agents.

10.3 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions:

Carbon oxides.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 12.600 mg/kg

LD50 Dermal - Rabbit - > 10.000 mg/kg

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Additional Information RTECS: MA8050000

Kidney - Irregularities - Based on Human Evidence

12. Disposal considerations

12.1 Waste treatment methods

Product

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	-	-	-		
13.2	UN Proper Shipping	Not dangerous	Not dangerous	Not dangerous goods		
	name	goods	goods			
13.3	Transport Hazard	-	-	-		
	Class					
13.4	Packaging group	1	-	-		
13.5	Environmental	No	No	No		
	Hazards					
13.6	Special precautions	None				
	for user					

14. 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.