

Gel Drying Solution



MATERIAL SAFETY DATA SHEET (MSDS)

MSGD500 v3.1

SECTION 1 COMPANY AND PRODUCT IDENTIFICATION

Manufacturer	NuSep Ltd 324 Burns Bay Road, Lane Cove NSW 2066 Australia ABN 81 134 281 977	Phone: 61 2 8415 7300 Fax: 61 2 8415 7399 Email: sales@nusep.com Internet: www.nusep.com
Date of Issue	March 2011 Not classified as hazardous according to criteria of NOHSC. Classified as dangerous goods according to the ADG Code.	
Product Name	Gel Drying Solution	
Other Names	None.	
Product Codes	GD-500, GD-2000	
Container Size	500 mL	
Product Use	Laboratory reagent for preservation of polyacrylamide gels by drying.	

SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Proportion, %
Ethanol	64-17-5	30 - 60
Ethylene glycol	107-21-1	< 25
Water	7732-18-5	to 100

SECTION 3 HAZARDS IDENTIFICATION

Health Hazard Classification	NON-HAZARDOUS
UN Classification	Class 3 (FLAMMABLE LIQUID, N.O.S.)
UN Number	1993

EMERGENCY OVERVIEW

Product	Gel Drying Solution is a clear, colourless liquid with a mild alcohol odour, packaged in plastic bottles, each containing 500 millilitres.
Risk Phrases	R11 - Highly Flammable.

POTENTIAL HEALTH EFFECTS

Inhalation	Data suggests that this product should present no significant problems.
Skin contact	Data suggests that this product should present no significant problems.
Eye contact	This product may be mildly irritating to eyes. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any lasting effects.
Ingestion	No hazards anticipated from swallowing small amounts incidental to normal handling procedures.
Chronic Exposure	No specific data is available for the product for chronic exposure symptoms.

CARCINOGEN STATUS

Ingredients are not classified as human carcinogens by the International Agency for Research on Cancer (IARC).

SECTION 4 FIRST AID MEASURES

Eye contact	For advice, contact a Poisons Information Centre or a doctor. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, or until the chemical is removed. While holding the eyelid(s) open. If irritation persists, obtain medical advice.
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SECTION 5 FIRE FIGHTING MEASURES

Flashpoint	There is a slight risk of an explosion from this product if it is involved in a fire. Fire fighters should take care and appropriate precautions. < 23 °C
Flammable Limits	Data not available.
Auto-ignition Temp.	Data not available.
Extinguishing Media	Carbon dioxide, dry chemical, foam, water fog. Foam is preferred medium for large fires.
Special Fire Fighting Procedures	If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat and preferably, goggles. Ensure that no spillage enters drains or watercourses.
Combustion Products	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.
Unusual Fire & Explosion Hazards	Fire decomposition products from this product may form toxic mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.
Sensitivity to Mechanical Impact or Static Charge	Data not available.

SECTION 6 ACCIDENTAL RELEASE MEASURES

The container sizes are 500 mL, therefore a major spill is unlikely. Spillage can be taken up with absorbent material such as sand or vermiculite. Avoid using sawdust or other combustible material. Wear gloves and eye protection. Prevent spillage from entering drains or watercourses. After spills, wash area, preventing runoff from entering drains. Dispose of in accordance with local, state and federal regulations.

SECTION 7 HANDLING AND STORAGE

Handling	This material is an S6 scheduled poison and a Class 3 flammable liquid and must be stored, maintained and used in accordance with the relevant regulations. Avoid contact with eyes, skin and clothing. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	TWA (mg/m3)	STEL (mg/m3)
	Ethanol 1880	not set
Engineering Controls	Ethylene glycol	60 120
	Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Use only with adequate ventilation.	
Personal Protection	Protective gloves and glasses are not normally necessary when using this product. However, it is always prudent to wear gloves and glasses when handling any laboratory chemicals.	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Specific Gravity	Not available
Colour	Clear, colourless	Water Solubility	Completely soluble
Odour	Mild alcohol odour	pH	No data (Not corrosive)
Boiling Point	Near 100 °C	Volatility	Not available
Freezing Point	Not available	Odour Threshold	Not available
Vapour Pressure	Not available	Evaporation Rate	Not available
Vapour Density	Not available	Coefficient of Distribution	Not available

SECTION 10 STABILITY AND REACTIVITY

Stability	This product is believed to be stable at normal temperatures and pressure.
Materials to avoid	Oxidising agents.
Hazardous Decomposition Products	None. Product is unlikely to spontaneously decompose.
Hazardous Polymerisation	This product is unlikely to spontaneously polymerise.

SECTION 11 TOXICOLOGICAL INFORMATION

Not available for the product. Ingredients are not classified as toxic in the concentrations present.

SECTION 12 ECOLOGICAL INFORMATION

Not available for the product. No single ingredient (over 1%) recognised as an environmental pollutant. Care should still be taken to ensure the product does not enter the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations.

SECTION 14 TRANSPORT INFORMATION

UN Dangerous Goods Class	Class 3 Flammable Liquids	Hazchem Code	3[Y]
UN Packaging Group	II	UN Number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.		

SECTION 15 REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the CPR (Controlled Product Regulations, Canada) and the MSDS contains all the information required by the CPR. Not classified as hazardous according to criteria of NOHSC. Classified as dangerous goods according to the ADG Code.

SECTION 16 OTHER INFORMATION

Label Text	Please read all labels carefully before using this product.
Acronyms	ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail
	CAS Number Chemical Abstracts Service Registry Number
	IARC International Agency for Research on Cancer
	NOHSC National Occupational Health and Safety Commission (Australia)
	OSHA Occupational Safety and Health Administration (U.S.A.)
	SUSDP Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
	UN Number United Nations Number
Preparation	This MSDS has been prepared according to international guidelines and is suitable for use in Canada, USA, Mexico, Japan, Europe, UK, Australia and other countries. This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. MSDS prepared by NuSep.

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