

## MATERIAL SAFETY DATA SHEET (MSDS)

MSNG000 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

**Date of Issue** March 2011

**Product Names and Codes**

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Internet: www.nusep.com

Cassette Type/Size	% Acrylamide	10 Well (50 µL) Cat#	12 Well (30 µL) Cat#	15 Well (25 µL) Cat#	17 Well (20 µL) Cat#
<b>Max</b>	8%	NN10-008	NN12-008	-	NN17-008
10.0 cm (wide)	10%	NN10-010	NN12-010	-	NN17-010
10.0 cm (high)	12%	NN10-012	NN12-012	-	NN17-012
	8-16%	NN10-816	NN12-816	-	NN17-816
	4-20%	NN10-420	NN12-420	-	NN17-420
<b>Mini</b>	8%	NB10-008	NB12-008	-	NB17-008
10.0 cm (wide)	10%	NB10-010	NB12-010	-	NB17-010
8.5 cm (high)	12%	NB10-012	NB12-012	-	NB17-012
	8-16%	NB10-816	NB12-816	-	NB17-816
	4-20%	NB10-420	NB12-420	-	NB17-420
<b>Universal</b>	8%	NG21-008	NG11-008	NG31-008	-
10.0 cm (wide)	10%	NG21-010	NG11-010	NG31-010	-
8.0 cm (high)	12%	NG21-012	NG11-012	NG31-012	-
	8-16%	NG21-816	NG11-816	NG31-816	-
	4-20%	NG21-420	NG11-420	NG31-420	-

**Product Use** Gel cassette for electrophoresis separation of charged molecules such as proteins.

### SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Proportion, %
Polyacrylamide	9003-05-8	< 30 *
TRIS	77-86-1	< 2.5
Sodium azide *	26628-22-8	< 0.004 **
Water	7732-18-5	to 100

\* Average concentration in most highly concentrated gel, other gels contain less. \*\* Sodium azide in storage buffer only.

### SECTION 3 HAZARDS IDENTIFICATION

**Health Hazard Classification** NON-HAZARDOUS.  
**UN Classification (and #)** Not a Dangerous Good (No Number Allocated).  
**Poison Schedule (SUSDP)** Not a Scheduled Poison.

#### EMERGENCY OVERVIEW

**Product** Clear, solid, gel encased in a hard plastic cassette, individually packaged in a plastic sachet in storage buffer (pH 8.5).  
**Major Health Hazards** None known.

#### POTENTIAL HEALTH EFFECTS

**Inhalation** The gel is unlikely to pose an inhalation hazard because it is encased in a plastic cassette.  
**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** Ingestion of the cassette is unlikely. Gel may cause gastrointestinal irritation if swallowed.  
**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** Quickly and gently blot or brush away chemical. 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, seek medical advice.  
**Ingestion** Drink plenty of water and seek immediate medical attention.

### SECTION 5 FIRE FIGHTING MEASURES

**Flashpoint** Data not available. This product does not burn.  
**Flammable Limits** Not applicable.  
**Extinguishing Media** This product does not burn. Use extinguishing media suited to the materials that are burning.  
**Fire & Explosion Hazards** If involved in fire, there is no explosion risk from this product under normal circumstances. 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 (minor quantities of carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke; water).  
**Fire Fighting Equipment** No special fire fighting clothing is necessary. However, wear safety shoes and overalls.

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SECTION 6 ACCIDENTAL RELEASE MEASURES			
Not applicable. The solid product is encased in a plastic cassette and other packaging.			
SECTION 7 HANDLING AND STORAGE			
<b>Handling</b>	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.		
<b>Storage</b>	Store at 4-8 °C. Keep from extreme heat and open flames.		
SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION			
<b>Exposure Limits</b>	Not applicable.		
<b>Engineering Controls</b>	No specific exposure controls needed.		
<b>Personal Protection</b>	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			
<b>Physical State</b>	Solid gel.	<b>Specific Gravity</b>	Not relevant.
<b>Colour</b>	Clear.	<b>Water Solubility</b>	Insoluble.
<b>Odour</b>	No odour.	<b>pH</b>	Not available.
<b>Boiling Point</b>	Not relevant.	<b>Volatility</b>	Not available.
<b>Melting Point</b>	Not available.	<b>Odour Threshold</b>	Not available.
<b>Vapour Pressure</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Vapour Density</b>	Not available.	<b>Coefficient of Distribution</b>	Not available.
SECTION 10 STABILITY AND REACTIVITY			
<b>Stability</b>	This product is believed to be stable at normal temperatures and pressure.		
<b>Materials to avoid</b>	No particular incompatibilities.		
<b>Hazardous Decomposition Products</b>	None. Product is unlikely to spontaneously decompose.		
<b>Hazardous Polymerisation</b>	This product is unlikely to spontaneously polymerise.		
SECTION 11 TOXICOLOGICAL INFORMATION			
Specific data is not available for this product. The ingredients are not classified as toxic.			
SECTION 12 ECOLOGICAL INFORMATION			
Specific data is not available for this product. Care should still be taken to ensure polyacrylamide gel does not enter the environment.			
SECTION 13 DISPOSAL CONSIDERATIONS			
Dispose of in accordance with local, state and federal regulations.			
SECTION 14 TRANSPORT INFORMATION			
No special transport requirements.			
SECTION 15 REGULATORY INFORMATION			
This product has been classified according to the hazard criteria of the Controlled Product Regulations (Canada) and found to be non-hazardous. Not classified as hazardous according to criteria of OSHA. Not classified as hazardous according to criteria of NOHSC. Not classified as dangerous goods according to the ADG Code.			
SECTION 16 OTHER INFORMATION			
<b>Label Text</b>	Please read all labels carefully before using this product.		
<b>Acronyms</b>	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.	
<b>Preparation</b>	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.		

END