

Agar Scientific Ltd

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Material Safety Data Sheet

Agar 100 Resin [R1045]

Section 1: **Company Identification and Product**

Product Name: Agar 100 Resin [100g]

Synonyms: GE100; Glycidyl ether 100 90529-77-4 CAS Number:

Supplier: Agar Scientific Ltd Unit 7, M11 Business Link, Parsonage Lane, Stansted, Essex, CM24 8GF, England +44(0)1279 813519 Tel: +44(0)1279 815106 Fax: Email: sales@agarscientific.com Emergency contact number: +44(0)1279 813519 [8.30am-5pm GMT]

Product Use: Epoxy resin used in microscopy

Date of MSDS preparation: 22nd October 2009

R40

Section 2: **Hazards Identification**

EC Classification and Symbols:



Harmful

Risk phrases

R36/38 Irritating to eyes and skin Possible risk of irreversible effects

Section 3: **Composition / Information on Ingredients**

Product	CAS Number	EC Number	%
Agar 100 Resin	90529-77-4	292-011-4	90-100

Section 4: First Aid Measures

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If breathing is difficult, give oxygen if available. Seek medical advice.

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Seek medical advice if signs of irritation persist.

Eye contact: Bathe the eye with running water for 15 minutes, holding the eyelids open with a gloved finger. Seek medical advice.

Ingestion: Do not induce vomiting. If conscious, give 1 pint of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Seek medical advice as soon as possible.

Section 5: Fire Fighting Measures

Extinguishing media: Use carbon dioxide, dry chemical powder or foam for small fires: water spray for large fires.

Exposure hazards: Forms carbon dioxide and carbon monoxide during combustion.

Protection of fire-fighters: Wear protective clothing and equipment, and SCBA.

Section 6: Accidental Release Measures

Personal precautions: Do not attempt to take action without suitable protective equipment. Refer to section 8.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into inert material such as dry earth or sand. Clear up and place in a suitable container. Keep tightly closed and dispose of as hazardous waste in accordance with local regulations. Wash the ground with an appropriate self-emulsifying solvent.

Section 7: Handling and Storage

Handling: Ensure there is sufficient ventilation of the area. Ideally handle in a chemical fume hood. Avoid direct contact with the substance.

Storage: Store in cool, well ventilated area. Keep container tightly closed.

Section 8: Exposure Controls / Personal Protection

Engineering measures: Ensure there is sufficient ventilation of the area. Ideally handle in a chemical fume hood.

Respiratory protection: Use a respiratory protective device approved to local government standards such as CEN [EU] or NIOSH [USA].

Agar 100 Resin [R 1045]

Hand protection:	Use compatible chemical resistant protective gloves.
Eye protection:	Wear safety glasses or goggles.
Skin protection:	Wear protective clothing with elasticated cuffs and closed neck.

Section 9: Physical and Chemical Properties

Physical State / Appearance	Pale yellow liquid
Melting Point [°C]	ND
Boiling Point [°C]	ND
Flash Point [°C]	118 - 135
Vapour Pressure	ND
SG / Density	1.22
Autoflammability [°C]	270
Solubility	Slightly soluble in water. Soluble in most organic solvents

Section 10: Stability and Reactivity

Stability: Stable under normal conditions. Overheating can lead to a spontaneous, possibly explosive, exothermic reaction. Hazardous polymerisation will not occur by itself, but see materials to avoid.

Materials to avoid: Strong oxidising agents, strong acids and bases, and powdered metals.

Section 11: Toxicological Information

Effects of exposure:	Watering of the eyes.				

Routes of exposure: May cause sensitisation by skin contact.

Toxicity:LD50 Oral Rat 5000mg/ / kg

Possible risk of irreversible effects [Carc. 3]. Ames test: mutagenic activity

Section 12: Ecological Information

Mobility:	Heavier than water
Persistence and degradability:	Not readily biodegradable
Bioaccummulative potential:	Bioaccumulation potential
Short / Long term effects:	Toxic to aquatic organisms.

Section 13: Disposal Considerations

Waste disposal: Dispose of in accordance with local and national guidelines. If approved facilities are available the use of a chemical incinerator equipped with afterburners and scrubbers may be appropriate.

Section 14: Transport Information

Shipment method	Shipping Name	UN No.	Class	Packing Group	Other Data
ADR / RID	NIF				
IMDG / IMO	NIF				
IATA / ICAO	NIF				

Section 15: Regulatory Information

EC Classification for labelling:		Harmful
Risk phrases:	R36/38 R40	Irritating to eyes and skin Possible risk of irreversible effects
Safety phrases:	S36/37/39 S24/25 S26 S27 S28	Wear suitable protective clothing, gloves and eye/face protection Avoid contact with skin and eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical attention Take off immediately all contaminated clothing After contact with skin, wash immediately with plenty of water.

Section 16: Other Information

Possible abbreviations used in this document:

NE= Not established NA= Not applicable NIF= No Information Found ND= No Data

The information and recommendations contained in this data sheet should assist the user with the safe handling of this material when properly applied. AGAR SCIENTIFIC LIMITED cannot accept responsibility for the consequences of any misuse of this material.