

1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the substance/preparation

Product name : Q-PAGE™ Precast Gel

Product code : QP2110/QP2310/QP2510/QP3110/QP3310/QP3510/QP4210/QP4510/
QP5210/QP5510/QP2120/QP2320/QP2520/QP3120/QP3320/QP3520/QP4220/QP4520/
QP5220/QP5520

Recommended use : For laboratory use. Suitable for Polyacrylamide Gel Electrophoresis.

1.2 Company/Undertaking identification

SMOBIO Technology, Inc.

3F, No. 15, Industry E. 9th Rd., Hsinchu Science Park, Hsinchu 300096, Taiwan

Tel : +886 3 5799292

Fax : +886 3 5790202

E-mail : support@smobio.com

1.3 Emergency telephone number

Emergency telephone : +886 3 5799292 (09.00-18.00 TST)

2. Hazards identification

2.1 Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System
(GHS) Classification to Regulation (EC) No 1272/2008

2.2 Label elements

Symbol(s) : Void

Signal Word : Not dangerous

2.3 Other hazards

None

Lieferant / Supplier:
Carl Roth GmbH + Co KG
Schoemperlenstr. 3-5
76185 Karlsruhe, Germany
+49 721 5606 0
sicherheit@carlroth.de

3. Composition/information on ingredient

<u>Chemical name</u>	<u>Weight %</u>	<u>EC No.</u>	<u>CAS No.</u>
Acrylamide	< 0.1%	201-173-1	79-06-1

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1272/2008/EC.

4. First aid measures

4.1 General information

No special measures required.

4.2 Description of first aid measures

In case of ingestion : If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event of any complaints.

In case of inhalation : If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.

In case of skin contact : Generally, the product does not irritate the skin. If symptoms of irritation after prolonged exposure occur, consult a doctor.

In case of eye contact : Wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

5. Fire fighting measures

5.1 Suitable extinguishing agents

Water spray, Carbon dioxide (CO₂), dry chemical powder or appropriate foam.

5.2 Not suitable extinguishing agents

None.

5.3 Special exposure hazards from decomposition products

Not thoroughly investigated.

5.4 Protective equipment

Wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

6.1 Personal precautions

Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage.
In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

6.2 Environmental precautions

No special measures required.

6.3 Methods for cleaning up

Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

6.4 Additional information

No dangerous substances are released.

7. Handling and storage

7.1 Handling

No further requirements. Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid. Avoid the formation of aerosols. Ventilate area.

7.2 Storage

Store at 4 °C. No other specific requirements relating to the preparation.

8. Exposure controls/personal protection

8.1 Control parameters

<u>Chemical name</u>	<u>CAS No.</u>	<u>Exposure limits</u>
Acrylamide	79-06-1	TWA : 0.03 mg/m ³

8.2 Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas.

8.3 Personal protection

Respiratory protection : No special measures required.

Hand protection : Wear rubber gloves. No special requirements to rubber.

Eye protection : Safety glasses (goggles) are recommended during ordinary operations with the preparation.

Skin protection : The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). No specific requirements.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Gel.

Color: Colourless.

Odor: Odorless.

pH-value at 25°C: ~6.5.

Boiling point: ~100°C.

Flash Point: No data available.

Flammability / autoflammability: The preparation is not flammable/self-igniting.

Explosive properties: The preparation does not possess explosive properties.

Oxidizing properties: No data available.

Vapor pressure: No data available.

Relative density at 20°C: ~1 g/cm³.

Solubility in/miscibility with water: Fully miscible.

Fat solubility: No data available.

Vapor density: No data available.

Evaporation rate: No data available.

Conductivity: No data available.

Viscosity: Not viscosity.

9.2 Other information

No further relevant information available.

10. Stability and reactivity

10.1 Stability

Stable under storage conditions (see section 7).

10.2 Reactivity

No data available.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No conditions which may cause dangerous reactions.

10.5 Incompatible materials

No in particular.

10.6 Hazardous decomposition products

No dangerous decomposition products known.

11. Toxicological information

11.1 Information on toxicology effects

Acute toxicity:

Not hazardous.

Inhalation:

No data available.

Ingestion:

May be harmful if swallowed.

Skin and eye contact:

No information available.

<u>Chemical name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LD50 Inhalation</u>
Acrylamide	124 mg/kg (Rat)	no data available	no data available

Chronic toxicity:

Product does not present a chronic toxicity hazard based on known or supplied information.

Carcinogenic effects:

Product does not present a carcinogenic effects based on known or supplied information.

Mutagenic effects:

Product does not present a c mutagenic effects based on known or supplied information.

Reproductive toxicity:

Product does not present a reproductive toxicity hazard based on known or supplied information.

Sensitization:

Product does not present a sensitization hazard based on known or supplied information.

Target organ effects:

Product does not present a target organ effects based on known or supplied information.

12. Ecological information

12.1 Ecotoxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Other adverse effects

No data available.

13. Disposal consideration

13.1 Waste treatment methods

Waste from residues / unused products: Dispose of in accordance with local regulation.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

IMDG/IMO: Non-hazardous for sea freight.

RID: Non-hazardous for rail transport.

ARD: Non-hazardous for road transport.

ICAO/IATA: Non-hazardous for air transport.

Other information: The preparation may be stored at low temperature during the transportation.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Acrylamide

CAS-No.: 79-06-1

Candidate List of Substances of Very High Concern for Authorization

Carcinogenic (article 57a)

ED/68/2009

15.2 Chemical safety assessment

No information available.

15.3 Regulatory information

US :

Labelling according to US Regulations: Caution: Avoid contact and inhalation.

US Regulatory information: SARA LISTED: No.

EU :

Labelling according to EU Guidelines: The preparation is not dangerous within the meaning

of Directives 1272/2008/EC, and is not labelled with danger symbols or indications of danger.

Canada :

WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No.

NDSL: No.

16. Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. SMOBIO shall not be held liable for any damage resulting from handling or from contact with the above product.