

## AccuMarQ Pre-Stained Molecular Weight Markers

According to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**Product Code:** A010-601

**Product Name:** AccuMarQ Pre-Stained Molecular Weight Markers

**Relevant identified uses of the substance or mixture and uses advised against:**

**Relevant identified uses:** For research use only, not for human or veterinary use.

**Details of the Supplier of the Safety Data Sheet:**

**Company Name:** Badrilla LTD

148 Rose Bowl, Portland Crescent

Leeds LS1 3HB

United Kingdom

**Web site address :** <https://badrilla.com>

**E-mail address :** [info@badrilla.com](mailto:info@badrilla.com)

**Emergency telephone number:**

Emergency contact: Badrilla Ltd +44 7801 730 618

Information: Badrilla Ltd <https://badrilla.com>

### Section 2: Hazards Identification

**Classification of the Substance or Mixture:**

Classification according to Regulation (EC) No 1272/2008 [CLP]:

**Label Elements:**

Not applicable.

**Other hazards**

No

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

### Section 3: Composition/ Information on Ingredients

Commercial Product name : **AccuMarQ Pre-Stained Molecular Weight Marker**

Product type : Liquid

Substance/mixture : Mixture

Description : There are non-hazardous ingredients in the mixture of the substances.

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**Composition**

Name	Concentration	CAS-No
Tris-phosphate	1-2%	6992-39-8
Urea	<25%	57-13-6
Sodium dodecyl sulfate	1-3%	51-21-3
Glycerol	10-25%	56-81-5

**Section 4: First Aid Measures****Description of first aid measures**

- Eye Contact :** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Remove contact lenses, clean before re-use. Get immediate medical attention.
- Inhalation :** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
- Skin Contact :** Wash with soap and water. Remove contaminated clothing and launder immediately, and discard contaminated leather goods, and wash before re-use. Get medical attention immediately if irritation develops or persists.
- Ingestion :** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water or milk to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

**Most important symptoms/effects, acute and delayed Potential acute health effects**

- Eye Contact :** No known significant effects or critical hazards.
- Inhalation :** No known significant effects or critical hazards.
- Skin Contact :** No known significant effects or critical hazards.
- Ingestion :** No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye Contact :** No specific data.
- Inhalation :** No specific data.
- Skin Contact :** No specific data.
- Ingestion :** No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Note To Physician :** Treat symptomatically. If large quantities have been ingested or inhaled, contact poison treatment specialist immediately.
- Specific treatments :** No specific treatment.

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### Section 5: Fire Fighting Measures

#### Extinguishing media

Suitable extinguishing media : Use water, carbon dioxide (CO<sub>2</sub>), dry chemical powder, or extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

#### Special hazards arising from the substance or mixture

Specific hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : Includes carbon dioxide, carbon monoxide, and dense smoke.

#### Advice for firefighters

Special precautions for firefighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

#### Environmental precautions

Avoid dispersal of spilt material, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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### Methods and materials for containment and cleaning up

- Small spill :** Exposure to the spilled material may be irritating or harmful. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.
- Large spill :** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

## Section 7: Handling and Storage

### Precautions for safe handling

No data available.

### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated place. Keep container tightly closed and sealed until ready for use.

\*Recommended storage temperature: -20 °C

## Section 8: Exposure Controls/Personal Protection

### Exposure controls

TWA : Not applicable.  
STEL : Not applicable.  
CEILING : Not applicable.  
BEIs : Not applicable.

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### Control parameters

	CAS-No	Exposure limits
Tris-phosphate	6992-39-8	6992-39-8
Urea	57-13-6	57-13-6
Sodium dodecyl sulfate	51-21-3	51-21-3
Glycerol	56-81-5	TWA: 10mg/m <sup>3</sup>

### Personal protective equipment

#### Hand protection :

Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

#### Skin and body protection :

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection :

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

#### Eye protection :

Wear chemical safety goggles. An eye wash station must be available where this product is used.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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**Section 9: Physical and Chemical Properties**

Appearance / Physical state :	Liquid.
Color :	Blue.
Odor :	No Odor.
Odor threshold :	Not available.
pH :	7.5
Melting point :	Not available.
Boiling point :	100°C
Flash point :	Not available.
Burning time :	Not available.
Burning rate :	Not available.
Evaporation rate :	Not available.
Flammability (solid, gas) :	Not available.
Lower and upper explosive (flammable) limits :	Not available.
Vapor pressure :	Not available.
Vapor density :	Not available.
Relative density :	Not available.
Solubility :	Not available.
Solubility in water :	Not available.
Partition coefficient: n-octanol/ water (log Kow) :	Not available.
Auto-ignition temperature :	Not available.
Decomposition temperature :	Not available.
Viscosity :	Not available.

**Section 10: Stability and Reactivity**

Reactivity - No specific test data related to reactivity available for this product or its ingredients.

Chemical stability - Stable.

Possibility of hazardous reaction - Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid - No specific data.

Incompatible materials - No specific data.

Hazardous decomposition products - Under normal conditions of storage and use, hazardous decomposition products should not be produced

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### Section 11: Toxicological Information

Information on toxicological effects			
Acute toxicity :	Not available.		
Acute toxicity estimates :	Not available.		
Irritation/Corrosion :	Not available.		
Sensitization :	Not available.		
Mutagenicity :	Not available.		
Carcinogenicity :	Not available.		
Reproductive toxicity :	Not available.		
Teratogenicity :	Not available.		
Aspiration hazard :	Not available.		

Name	LD50 Oral	LD50 Dermal	LD50 Inhalation
Sodium dodecyl sulfate	1288 mg/kg (rat)	580 mg/kg (rat)	3900mg/m <sup>3</sup> /hr (rat)
Glycerol	12600 mg/kg (rat)	21900 mg/kg (rat)	Potential acute health effects
Eye contact :	No known significant effects or critical hazards.		
Inhalation :	No known significant effects or critical hazards.		
Skin contact :	No known significant effects or critical hazards.		
Ingestion :	No known significant effects or critical hazards.		

### Potential chronic health effects

Eye contact :	No known significant effects or critical hazards.
Inhalation :	No known significant effects or critical hazards.
Skin contact :	No known significant effects or critical hazards.
Ingestion :	No known significant effects or critical hazards.

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### Section 12: Ecological Information

Toxicity –  
Not available.

Persistence and degradability –  
Not available.

Bioaccumulative potential –  
Not available.

Mobility in soil –  
Not available.

Results of PBT and vPvB assessment

PBT : Not available.

vPvB : Not available.

Other adverse effects - No known significant effects or critical hazards.

### Section 13: Disposal Considerations

Waste treatment methods

Clean up and dispose of waste in accordance with all national, and or local environmental legislation.

### Section 14: Transport Information

UN number (ADR, AND, IMDG, IATA) - Not available.

UN proper shipping name (ADR, AND, IMDG, IATA) - Not available.

Transport hazard class(es) (ADR, IMDG, IATA) - Not available.

Packing group - No.

Environmental hazards - Not available.



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**Section 15: Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

Chemical Safety Assessment

No data available.

**Section 16: Other Information****Hazardous Material Information System (U.S.A.)**

Health	0
Flammability	0
Reactivity	0

**National Fire Protection Association (U.S.A.)**

Health	0
Flammability	0
Instability/Reactivity	0

Abbreviations**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road**ADN** - A set of European regulations for the carriage of dangerous goods by inland waterway**IMDG** - International Maritime Dangerous Goods**IATA** - International Air Transport Association-Dangerous Goods Regulations**OSHA** - Occupational Health and Safety Administration