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**OLYMPUS**  
Marketing, Inc.

www.olympus.com.ph

**Poly Klear**  
FIBERGLASS + RESIN

## TECHNICAL DATA SHEET

### POLYKLEAR R99-300 HIGH ELASTIC WATERPROOFING

#### I. PRODUCT IDENTIFICATION

**Product name:** POLYKLEAR R99-300 HIGH ELASTIC WATERPROOFING**Grade:** Orthophthalic Laminating Resin**DOT Shipping Name :** Resin solution**DOT Hazard Class :** Flammable Liquid

#### II. INGREDIENTS

##### Hazardous Components

Polyester resin 62%

Styrene monomer 38%

#### III. PHYSICAL DATA

Physical Properties : Liquid  
Boiling Point (760mm HG): 145°C  
Specific Gravity : 1.13  
% Volatiles by Volume : 35.0%  
Solubility in H<sub>2</sub>O : Insoluble

##### *Fire and Explosion hazard*

Flash Point : 31°C

##### *Flammable limits of volatiles*

Styrene 1.1% to 6.1%

#### IV. HEALTH HAZARD DATA

Health Hazard	Effects of short-term exposure	Effects of long-term exposure	First detectable signs of over-exposure
If Inhaled	Irritation to eyes & respiratory tract		Nausea, vomiting, weakness, drowsiness dermatitis, headache anorexia, decreased blood pressure.
If Swallowed	Harmful – medium danger		
Skin Contact	Irritant to skin		

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### **Personal protection**

- Inhalation - at levels above 50ppm up to 2%, use approved industrial canister gas masks. Above 2% use air or oxygen supplied full face mask.
- Eyes - Safety goggles if subject to splashing.
- Skin - Rubber or insoluble plastic.

### **First aid measures**

- Ingestion - Induce vomiting at least three times with milk and raw eggs.
- Skin contact - Wash contact areas with soap and water. Remove contaminate clothing.
- Eye contact - Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.
- Inhalation - Move to fresh air. Lie down and keep warm. Oxygen will relieve coughing. If unconscious, revive and seek medical attention.

## **V. STORAGE CONDITIONS**

Store in a cool place, preferably below 25°C. Take all precautions for the storage and handling of flammable liquids. Avoid copper or copper alloys. Rubber hose NOT recommended. DO NOT store near excessive heat, oxidising agents, alkylation catalysts, halogens, hydrogen halides.

## **VI. SPILLAGE PROCEDURES**

- Clean up - Contain spill for recovery or absorb onto inert absorbent material for disposal.
- Protective measure - Eliminate all ignition source.

## **VII. FIREFIGHTING PROCEDURES**

- Extinguishing media - Dry chemical, water fog, foam, CO<sub>2</sub>, cool storage drums with water spray.
- Decomposition products - Acrid fumes.

## **VIII. TRANSPORT INFORMATION**

IMO : 3.3  
UN No. : 1866

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## IX. DISPOSAL

Incineration in compliance with local regulations.

## IMPORTANCE

The information furnished above is based on data believed to be accurate, and is offered in good faith for the protection of the user. However, the information is offered without guarantee, and no responsibility can be accepted for the use of or reliance on same.

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### POLYKLEAR R99-300 HIGH ELASTIC WATERPROOFING

#### I. IDENTIFICATION AND DESCRIPTION

**Product Name:****Product Description:**

POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC

POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC is a pre-accelerated, quick-curing, thixotropic and waxed or can be un-waxed unsaturated soft type polyester resin of Iso-phthalic grade for general laminating purposes. For an unaccelerated resin, accelerator must be added by users in accordance with their requirements

#### II. APPLICATIONS

POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC is used for making a variety of high quality glass fiber reinforced plastic products such as waterproofing of deck, balcony of building, hospital, office building, apartments, boats and canoes, water, oil and petroleum storage tanks, water and oil pipes, cooling towers, bus shelters, stadium seat, bath tubs, telephone booths, septic tanks, safety helmets, dust bins, models, FRP molds, containers, bath unit, concrete framings, tables and chairs.

Glass fibre reinforced laminates made with this resin possess excellent elongation and outstanding durability. In addition, POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC also possesses excellent water and impact resistance

#### III. SPECIFICATIONS

POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC polyester has the following characteristics:

Appearance	:	Translucent Purple
Viscosity at 30°C	:	4 - 6 poises
Gel Time at 30°C	:	20 - 30 minutes
Cure Time at 30°C	:	30 - 35 minutes
Stability in the Dark below 25°C	:	6 months

*\*Above gelation characteristics determined using 1% v/w of MEKP catalyst (Butanox M-50) on 20g of resin.*

#### IV. USAGE

POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC performs best when it is completely cured. To do so, a proper combination of catalyst and accelerator must be used at room temperature for a sufficient period of time. Generally, 1 percent of catalyst (BUTONOX M-50 MEKP) together with 0.5 percent of accelerator (6% cobalt content) is used for POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC.

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Adjustments for shorter or longer geltime can be achieved by ranging the quantities of catalyst and/or accelerator used. As a rule, however, the amount of catalyst used should not be more than 2% or less than 0.5% while that of accelerator should range between 0.4% and 1%. Be sure to measure accurately.

Ensure that the accelerator must be completely mixed into the resin before catalyst is added in order to avoid a direct blending which due to a violent reaction may result in an EXPLOSION.

Since the viscosity increased as the storage period of resin lengthens, Styrene Monomer can be added to lower it to a desired level.

However owing to difficulties in presenting information applicable to all situations, no warranty is expressed or implied and users are recommended to carry out their own tests to determine the applicability of the above information and the suitability of POLYKLEAR resin for their particular requirements

#### V. STORAGE

POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC will remain stable if stored in the dark and at temperatures below 25°C. Their stability however deteriorates markedly at higher temperatures, especially when they are directly exposed to sunlight. Hence they should be kept in a cool, dark place. It is advisable to finish it within three months.

#### VI. PACKING

POLYKLEAR R99-300 RESIN-GP HIGH ELASTIC is packed in liter, gallons and tins.

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