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OLYMPUS
Marketing, Inc.

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Poly Klear
FIBERGLASS + RESIN

MATERIAL SAFETY DATA SHEET

POLYKLEAR R99-S101 RESIN-GP RIGID FAST-CURED

I. PRODUCT IDENTIFICATION

Product Name : POLYKLEAR R99-S101 RESIN-GP RIGID FAST-CURED
Physical Properties : Liquid

II. INGREDIENTS

PRINCIPAL COMPONENTS

Unsaturated Polyester : 62%
Styrene Monomer : 38%

III. PHYSICAL DATA

Boiling Point (760mm HG) : 145°C
Specific Gravity : 1.13
% Volatiles by Volume : 35.0%
Solubility in H₂O : Insoluble

Fire and Explosion Hazard

Flash Point : 30°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		

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.

LUZON:

REGIONAL OFFICE
TAGUIG
1st Avenue, Sta. Maria Industrial Subd,
Bagumbayan, Taguig City
Tel.#: (02) 506-8519 ; 837-0710
837-0708
Fax #: (02) 519-1552 ; 553-2551

VISAYAS:

HEADQUARTERS
CEBU
2F SEA Olympus Building, AC Cortes Ave.
Trunkline #: (032) 421-7777
Tel.#: (032) 346-7137 ; 421-7800 to 06
421-7817 to 18 ; 421-7823
Fax #: (032) 421-7789 ; 346-1817

MINDANAO:

REGIONAL OFFICE
DAVAO
Unit A16 J.King Warehouse Complex
Km.3 Maa Road, Davao City 8000
Telefax #: (082) 244-1206 ; 302-2711

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Skin

-

Rubber or insoluble plastic.

First Aid:

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

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, oxidizing 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. FIRE FIGHTING PROCEDURES

Extinguishing media

-

Dry chemical, water fog, foam, CO₂, cool storage drums with water spray.

Decomposition products

-

Acrid fumes.

VIII. DISPOSAL

Incineration in compliance with local regulations.

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IX. TRANSPORTATION INFORMATION

IMDG

Identification number	- UN 1866
Proper shipping name	- Unsaturated Polyester Resin Class / Division-3
Packing group	- III
Marine Pollutant	- No

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TECHNICAL DATA SHEET

POLYKLEAR R99-S101 RESIN-GP RIGID FAST-CURED

I. IDENTIFICATION AND DESCRIPTION

POLYKLEAR R99-S101 RESIN-GP RIGID FAST-CURED is a non-accelerated, non-waxed, clear low color and high viscosity unsaturated polyester resin of orthophthalic grade.

II. APPLICATIONS

This resin is used for making a variety of figurine casting, stone-craft, wood lamination, skylight, culture marble, etc. Glass fiber reinforced laminates made with POLYKLEAR R99-S101 also offers some advantages as stated below:

- a) Good Mechanical Properties
- b) Early Development of Barcol Hardness
- c) Fast Glass Fiber Wet Out
- d) Reducible with Styrene Monomer

III. SPECIFICATIONS

Liquid POLYKLEAR R99-S101 polyester has the following characteristics:

Appearance

Viscosity at 30°C (Brookfield LVT, spindle 3, 60rpm)

Gel Time at 30°C

Storage life at 20°C

Non-Volatile content (%)

Clear light colored liquid

≥30cps

4 – 8 mins

3 months

74.6

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

IV. USAGE

POLYKLEAR general purpose polyester laminating resin 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 (BUTANOX M-50 MEKP) together with 0.5 percent of accelerator (6% cobalt content) is used.

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.

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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.

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 polyester resin will remain stable for about three months 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.

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