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OLYMPUS
Marketing, Inc.

www.olympus.com.ph

Poly Klear
FIBERGLASS + RESIN

MATERIAL SAFETY DATA SHEET

POLYKLEAR R99-403-C RESIN-GP GELCOAT CLEAR

1. PRODUCT IDENTIFICATION

Product Name : POLYKLEAR R99-403-C RESIN-GP GELCOAT CLEAR
Grade : Isophthalic

2. PHYSICAL DATA

Physical Properties : Liquid
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 : 31°C

Flammable limits of volatiles

Styrene : 1.1% to 6.1%

3. 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 50 ppm 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:

Ingestion - Induce vomiting at least three times with milk and raw eggs.
Skin contact - Wash contact areas with soap and water.
Remove contaminated clothing.
Eye contact - Flush eyes with water for 15 minutes. Seek medical

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Inhalation

-

attention if irritation persists.

Move to fresh air. Lie down and keep warm. Oxygen will relieve coughing. If unconscious, revive and seek medical attention.

4. 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, oxidising agents, alkylation catalysts, halogens, hydrogen halides.

5. SPILLAGE PROCEDURES

Clean up

-

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

6. FIRE FIGHTING PROCEDURES

Extinguishing media

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

Decomposition products

- Acrid fumes.

7. DISPOSAL

Incineration in compliance with local regulations.

8. 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 R99-403-C RESIN-GP GELCOAT CLEAR

I. IDENTIFICATION AND DESCRIPTION

Product Name:

POLYKLEAR R99-403-C RESIN-GP GELCOAT CLEAR

Product Description:

Gelcoat Clear R99-403-C are approved by Lloyd's Register of Shipping for use in the construction of GRP boats and crafts.

II. SPECIFICATIONS

Liquid SHCP G3253T Gelcoat resin has the following characteristics:

Appearance	: Pink
Viscosity at 30°C (Brookfield LVT, spindle 4, 60rpm)	: 15 – 25 ps
Gel Time at 30°C	: 6 – 12 minutes
Peak Exothermic Temperature	: 150°C – 170°C
Stability in the Dark below 25°C	: 6 months

** Above gelation characteristics determined using 1% v/w of MEKP catalyst (Butanox M-50) and 0.5% v/w of accelerator (cobalt content: 6%). The properties of the cured resin are greatly influenced by factors, such as working method, temperature and humidity, which implies that the given figures should be considered as approximate only.*

III. PROPERTIES

Cured R99-403-C Gelcoat resin exhibits the following physical properties:

CHARACTERISTICS	UNITS	RESULTS	TEST METHOD
Water Absorption (7 days at 23°C)	%	0.27	ISO-62-1980
Barcol Hardness		47	ASTM D2583-67
Flexural Strength	kgf/mm ²	8.2	ASTM D790-71
Tensile Strength	kgf/mm ²	3.0	ASTM D638-72
Elongation at break	%	3.2	ASTM D638-72

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IV. USAGE

Gelcoat resin will form a strong, elastic, and glossy surface when it is fully cured. Curing can be carried out wither at an elevated temperature of about 50°C or at room temperature. The cure time depends on the quantities of catalyst and accelerator used. In general, 1 to 1.5 percent of former is combined with 0.5% of the latter.

To ensure an even and thin coating, the gun spray-up application is recommended. For a fine mixing of colorants with Gelcoat resin, a three-roll mill machine should be used.

WARNING: The accelerator must be thoroughly mixed in to the gelcoat resin before catalyst is added in order to avoid a direct blending between these two chemicals as they can react with violence and cause 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 SHCP resin for their particular requirements.

V. STORAGE

Gelcoat resin 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.

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