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OLYMPUS
Marketing, Inc.

www.olympus.com.ph

Poly Klear®
FIBERGLASS + RESIN**Poly Klear®**
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FIBERGLASS + RESIN**MATERIAL SAFETY DATA SHEET**

POLYKLEAR IMPORTED TONER PASTE

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Paste colours consist of mixture of inorganic and organic colorants with polyester resin. It is generally used as a color concentrate for coloring polyester gelcoats which are surface coatings in the fiberglass industry and also for coloring unsaturated polyester resin.

II. INGREDIENTS

Chemical Identity	CAS Number	Proportion	NH & MRC TLV	
			8hr TWA	STEL (15 min)
Long-chain polyester base	*	30-90	Not set	Not set
Pigments	various	10-70		
Surfactants	*	<1	Not set	Not set

NOTE: (1)*= specific chemistry withheld as trade secret.

(2) This MSDS is very much a generalization, and has been put together as such because the writing of individual sheets for all the different formulations is impractical.

III. HAZARDS IDENTIFICATION**Health Effects**

Acute swallowed : The ingestion of significant quantities of this material is most unlikely. However, see under "First Aid" below for treatment.

Eye : Irritating to eyes.

Skin : Contact with skin may produce moderate irritation.

Chronic : There is no data available relating to chronic exposure of this range of products.

IV. FIRST AID MEASURES

Acute swallowed : Induce vomiting. Use IPECAC syrup (APF) if available. if poisoning occurs, call a doctor.

Eye : Immediately flush with water for at least 15 minutes. Call a doctor.

Skin : Remove contaminated clothing and wash skin thoroughly.

Advice to doctor : Treat symptomatically.

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V. FIREFIGHTING MEASURES

Flammability. Non-volatile. This material may however burn if associated with a fire.

LEL: 1.1%

UEL: 6.1%

Extinguishing media. CO₂, foam, dry chemical or BCF. Water spray should be used to wet exposed equipment and containers.

Special firefighting procedures. Firefighters exposed to vapour or decomposition product should wear self-contained breathing apparatus. Eliminate all sources of combustion. Cool the container with sprayed water to avoid polymerization.

Unusual fire and explosion hazard. Polymerization may occur at elevated temperatures, such as in a fire. If this occurs in a close container, violent rupture may result. Paste color with heavy metals may produce oxides of those metals if involved in a fire.

VI. ACCIDENTAL RELEASE MEASURES

Personal protection. Wear chemical safety goggles and have eye baths immediately available where there is potential for eye contact. Wear protective gloves, an apron and protective footwear.

Engineering control. Provide sufficient ventilation to control exposure as much as possible. Use local mechanical exhaust ventilation at source of contamination.

Environmental protection. Discharge in sewers is prohibited. If it contaminates lake, rivers or sewers, inform local authorities in accordance with local regulations.

VII. HANDLING AND STORAGE

Usage precautions. Do not smoke when using. Wear suitable respiratory equipment during spraying.

Storage precautions. Not classified as a dangerous material under "The Code for the Transport of Dangerous Goods by Road and Rail". However, the material should be kept in a clean, dry and closed containers with temperature below 30C. No smoking within or near the area.

Storage criteria. New metal packaging recommended. Keep children away from storage area.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits. Maximum airborne concentration at the workplace not applicable.

General protection and hygiene measures. Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink while handling.

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Respiratory protection. Not required.

Hand protection. Recommended butyl rubber gloves.

Eye protection. Recommended protective goggles.

Exposure to the environment. Prevent material from introduction into surface water and soil.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical state /form	paste
Color	several colors
Odor	mild odor
Density	approx. 1.07 to 1.12 at 23C
Melting/boiling point	not applicable
Flash point	>200C
Autoignition temperature	>490C
Vapor pressure	not applicable
Solubility in water	insoluble

X. STABILITY AND REACTIVITY

Stability. It needs to be stored and handled in accordance with standard industrial practice, control mixing and storage below 30C when mixing with polyester resin and other additives to avoid accelerated heat decomposition and reaction, especially when mixing with hazardous decomposition products such as acids, alkalines, peroxides or oxidisers.

Conditions to avoid. Avoid source of ignition.

Materials to avoid. Certain materials applications are beyond our knowledge. It is encouraged that users test in small quantity at the initial stage until maturation. Don't mix pigment with excessive solvents or resin as this will dilute the homogenizer and cause color separation.

XI. TOXICOLOGICAL INFORMATION

According to our present state of knowledge, no damaging effects is expected when treated in accordance with standard industrial practices and local regulations where applicable.

XII. ECOLOGICAL INFORMATION

Ecological. Do not discharge into drains or the environment. Dispose to an authorized waste collection waste collection point.

Bio-degradation. Biologically not degradable.

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XIII. DISPOSAL CONSIDERATION

Disposal methods. Dispose of in accordance with local authority requirements. Dispose to an authorized waste collection point. This material and its container must be disposed off as hazardous waste. Empty containers should be sent to an approved recycling facility.

XIV. TRANSPORT INFORMATION

Road ADR transport	Not regulated for transport
Railway RID	Not regulated for transport
Sea transport	
IMDG	Not regulated for transport
Air transport UN no.	1866
IATA/ICAO Class	3
IATA/ICAO Packaging group	III

XV. REGULATORY INFORMATION

Risk phrases. R-36/38 Irritating to eyes and skin.

Safety phrases. S-21 When using, do not smoke. S-24/25 Avoid contact with skin and eyes.

XVI. OTHER INFORMATION

The information furnished above is based on the 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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TECHNICAL DATA SHEET

POLYKLEAR IMPORTED TONER PASTE

POLYKLEAR IMPORTED TONER PASTE consists of mixture of inorganic and organic colorants, which had dispersed into a polyester base resin. The color paste is compatible with unsaturated polyester resin and gelcoat and forms an integral part of the molded surface.

Viscosity

This can be easily transferred by pouring from its container directly into the mixing vessel.

Note, however, that viscosity can be affected by temperature- when temperature is very cold, it will be harder to pour.

General Specifications

Recommended mixing	-	≤20% by weight
Color tolerances	-	normally 1.0 DE CIELAB maximum
Viscosity	-	not specified
Grind	-	particle sizes normally less than 10µm

Packaging

Available at 5kgs and 25kgs.

Storage

This toner have an indefinite storage life. Samples up to 5 years old have been found to still be suitable after stirring.

Reactive substances should not be introduced into the packaging container, as it will cause gelation.

Before addition to resin, stir thoroughly material because settling of certain pigments may occur.

SEA Olympus Marketing Inc. reserves the right to change the information given herein without prior notice. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume liability for occurrence arising out of its use. The user, by accepting products described herein agrees to be responsible for thoroughly testing any application before committing to production.

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