



**PT. ETERNAL BUANA CHEMICAL INDUSTRIES**  
BARCLAYS HOUSE, 7<sup>TH</sup> FLOOR  
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## MATERIAL SAFETY DATA SHEET

### I. PRODUCT IDENTIFICATION

Product name : EBP 2441 PI  
Common chemical name : Unsaturated Polyester Resin  
Synonyms : Low reactivity and non promoted of ortho type unsaturated polyester resin

### II. INFORMATION ON INGREDIENT

Hazardous Ingredients	%	CAS Number	EC number
Styrene Monomer	10 - 40	100-42-5	202-851-5

### III. HAZARD IDENTIFICATION

Potential Health Effect:

Eye contact : Irritation, tearing, eye damage  
Skin contact : Irritation, symptoms of drunkenness  
Ingestion : Irregular heartbeat, kidney damage, liver damage, cancer  
Inhalation : Irritation, metallic taste, vomiting, headache, symptoms of drunkenness, liver damage, coma

### IV. FIRST AID MEASURES

Eye contact : Rinse with plenty of water immediately. Seek medical attention.  
Skin contact : Wash with plenty of soap and a large amount of water immediately. Take the contaminated clothing off. Seek medical attention if irritation develops.  
Ingestion : Do not induce vomiting because of risk of aspiration. Rinse mouth with water. Seek medical attention.  
Inhalation : Move to fresh air and take a rest. Apply artificial respiration if difficulty in breathing. Seek medical attention after significant exposure.

### V. FIRE FIGHTING MEASURES

Flash Point : 31.1 °C (tag closed cup).  
Boiling point : 145,0° C (760,0 mmHg)  
Ignition temperature : 490,0° C  
Fire fighting : Use water spray to cool fire exposure surfaces and to protect personnel. Use foam, dry chemical, or water spray to extinguish fire.  
Hazardous product of combustion : Carbon monoxide (CO).  
Unusual fire & explosion hazard : None known.  
Lower explosion limit : 1,1 %  
Upper explosion limit : 8,0 %  
Protection of fire fighters : Wear protective clothing & use self-contained breathing apparatus.






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## VI. ACCIDENTAL RELEASE MEASURES

-  Personal precaution : Use protective equipment.
-  Environmental precaution : Keep away from drains, ground water & soil.
-  Method for cleaning up : Collect as much as possible in a container for disposal. Cover the remainder with inert absorbent, sand or soil. Disposal according to local regulations.





## VII. STORAGE AND HANDLING

-  Handling : Keep away from heat, sources of ignition, and no smoking.
-  Storage : Keep in a cool, dry and well-ventilated place.



This product is stable under normal conditions of handling and storage.

## VIII. PERSONAL PROTECTION





### Personal Protective Equipment

-  Eyes : Use safety glasses with side shield.
-  Hands : Although this material doesn't irritate skin significantly. To minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended.
-  Skin & body : Although this material doesn't irritate skin significantly. To minimize skin contamination by following good industrial practice. Wash contaminated skin thoroughly after handling. Avoid breathing vapour.
-  Respiratory system : Use local exhaust ventilation or handle in a ventilated enclosure. For greater protection wear respiratory protective equipment is recommended.

## IX. PHYSICAL PROPERTIES

-  Physical state & appearance : Colorless and clear liquid
-  Viscosity at 25° C, Brookfield#3/60 : 1200 - 1300 cPs
-  Odor : Styrene like
-  Boiling point : 160 – 260°C
-  Water solubility : Insoluble
-  Specific Gravity (25°C) : 1.1 – 1.12 g/ml

## X. STABILITY & REACTIVITY

-  Stability, in darkness at 25° C : 3 – 6 months
-  Condition to avoid : Excessive heating.
-  Material to avoid : None known
-  Hazardous Decomposition Product : None known



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## XI. TOXICOLOGICAL INFORMATION

PT. Eternal Buana Chemical Industries has not conducted toxicity studies on this material. No toxicological information is available

## XII. COMPONENT INFORMATION

Polycondensation product of carbodicyclic acids or anhydrides with dihydroxy alcohols. The polymer is cotaining unsaturation and dissolved in styrene monomer as crosslinking agent.

## XIII. ECOLOGICAL INFORMATION




PT. Eternal Buana Chemical Industries has not conducted environmental toxicity or biodegradation studies on this material. No ecological information of this material is available.

## XIV. DISPOSAL CONSIDERATION

 Disposal method : Controlled incineration or recycle.

## XV. TRANSPORT INFORMATION

International transportation regulations :

 UN number : 1866  
 Proper shipping name : Resin in solution (flammable liquids)  
 Clasification of Hazardous Materials : 3.3



## XVI. REGULATORY INFORMATION

 Local regulations : Not available

## XVII. OTHER INFORMATION

This above data and information applies to the product as such and confirming to specifications given PT. Eternal Buana Chemical Industries. While the information is believed to be correct, PT. Eternal Buana Chemical Industries shall in no event be responsible for any damages what so ever, directly or indirectly resulting from the publication or use of or reliance upon data contained here in. Users are advised of possible additional hazard when the product is used in applications for which it was not intended. This sheet only be used and reproduced for prevention and security purposes.