






**PT. ETERNAL BUANA CHEMICAL INDUSTRIES**  
BARCLAYS HOUSE, 7<sup>TH</sup> FLOOR  
JL. JENDERAL SUDIRMAN KAV 22-23 JAKARTA 12920  
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No. : EBCI/MSDS/2432  
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## MATERIAL SAFETY DATA SHEET

### I. PRODUCT IDENTIFICATION





 Product name : PT 49 S  
 Common chemical name : Accelerator for unsaturated polyester Resin  
 Synonyms : Cobalt based metallic solution for using as accelerator especially for sheet button and casting

### II. INFORMATION ON INGREDIENT





Hazardous Ingredients	%	CAS Number	EC number
 Toluene	: 70 - 80	108-88-3	203-625-9

### III. HAZARD IDENTIFICATION









Potential Health Effect:

 Eye contact : Irritation (possibly severe), tearing, eye damage  
 Skin contact : Irritation (possibly severe), allergic reactions, rash  
 Ingestion : Allergic reaction, nausea, vomiting, drowsiness, symptoms of drunkenness, coma  
 Inhalation : No information on significant adverse effects

### IV. FIRST AID MEASURES

 Eye contact : Flush eyes with plenty of water for at least 15 minutes. Seek medical attention.  
 Skin contact : Wash with plenty of water and soap for at least 15 minutes while removing contaminated shoes and clothes. Seek medical attention if irritation develops.  
 Ingestion : Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.  
 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 : 4° C (tag closed cup).  
 Vapor density : 3.2 g/L  
 Vapor pressure : 26 mmhg  
 Boiling point : 110.6 – 111° C (760,0 mmHg)  
 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 : 7.0 %

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- Upper explosion limit : 1,0 %
- Protection of fire fighters : Wear protective clothing & use self-contained breathing apparatus.

**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 : Blue violet & clean liquid
- Metal content,% : unknown
- Odor : Hydrocarbon odour
- Water solubility : Insoluble
- Non volatile contents,%(105° C, 3 hours) : 12 – 16 %

**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

EBCI has not conducted toxicity studies on this material. No toxicological information is available

## XII. ECOLOGICAL INFORMATION




EBCI has not conducted environmental toxicity or biodegradation studies on this material. No ecological information of this material is available.

## XIII. DISPOSAL CONSIDERATION

 Disposal method : Controlled incineration or recycle.

## XIV. TRANSPORT INFORMATION

International transportation regulations :

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



## XV. REGULATORY INFORMATION

 Local regulations : Not available

## XVI. OTHER INFORMATION

This above data and information applies to the product as such and confirming to specifications given by Eternal Buana Chemical Industries. While the information is believed to be correct, EBCI 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.