



**SAFETY DATA SHEET
EP 310 Part A**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME EP 310 PART A

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2. HAZARDS IDENTIFICATION

HUMAN HEALTH HAZARDS
 Irritation of skin, eyes and respiratory tract. Affects (Central) nervous system.

EFFECTS AND SYMPTOMS

INHALATION
 Coughing, headache, dizziness, drowsiness, unconsciousness, nausea and vomiting.

INGESTION
 Sore throat, stomach-ache, dizziness, vomiting and dullness.

SKIN CONTACT
 Dry skin, redness.

EYE CONTACT
 Pain, redness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Unsaturated polyester resin/vinyl ester resin dissolved in styrene.
 Itself, Catechol
 4 - Tert Butyl

4. FIRST-AID MEASURES

INHALATION
 Move to fresh air, rest, half upright position, loosen clothing. Provide artificial respiration in case of difficulty in breathing. Seek medical advice after significant exposure.

INGESTION
 DO NOT induce vomiting because of risk of aspiration. Rinse mouth with water. Seek medical advice.

SKIN CONTACT
 Wash with plenty of water immediately. Take all contaminated clothing off immediately. Seek medical advice if irritation develops.

EYE CONTACT
 Rinse immediately with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Always seek medical advice.

EP 310 Part A**5. FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA

Powder, Carbon dioxide, foam, water mist (only for large amounts)

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS

In case of fire, toxic fumes might be formed.

PROTECTION OF FIRE FIGHTERS

Wear protective clothing and use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Put on adequate protective equipment. Do not breathe vapour.

ENVIRONMENTAL PRECAUTIONS

Keep away from drains, surface-water, ground-water and clear up methods and soil. Clear up as much as possible in a clean container or disposal. Cover the remainder with inert absorbent. Dispose according to local regulations.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat. Keep away from sources of ignition - No smoking. Do not breathe vapour. Avoid contact with skin and eyes. Take precautionary measures against static discharges.

STORAGE PRECAUTIONS

Keep in a cool, well ventilated place away from peroxides. Take precautionary measures against static discharge. The shelf life of styrene containing unsaturated polyesters / vinyl esters will be significantly reduced when exposed to light. Store in dark in 100% light tight containers only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY SYSTEM

Never exceeds the Occupational Exposure Limit. Use local exhaust ventilation or handle in a ventilated enclosure. For greater protection a face piece chemical cartridge respirator is recommended. (A3)

SKIN AND BODY

Chemical resistant protective suit. Chemical resistant boots.

HANDS

Gloves, Chemical resistant (Butyl rubber, Polyvinyl, alcohol)

EYES

Safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State and appearance	Liquid.
Colour	Yellow to amber as applicable
Odour	Characteristic
Boiling Point	The lowest known value in 145°C (Styrene)
Melting Point	May start to solidify at -31°C (-23.8°F) based on data
For styrene.	
Bulk Density @25°C	1.05 - 1.12 g/cc as applicable
Vapour Density	The highest known value is 3.6 (Air = 1) (styrene)
Vapour Pressure	The highest known value is 0.6 kPa (@20°C) styrene
Solubility	Insoluble in cold water
pH	Not applicable
Flash point	33°C (Closed cup)
Auto-ignition Temperature	The lowest known value is 490°C (914°F) (Styrene)
Explosion Limits in air	The greatest known range is LOWER : 1.1% UPPER : 8% (Styrene)
Viscosity @ 23°C	Dynamic > 300 mPa.s

EP 310 Part A**10. STABILITY AND REACTIVITY**

CONDITIONS TO AVOID

Excessive heating. Protect against sunshine. Do not mix with peroxides / Materials to avoid.

HAZARDOUS DECOMPOSITION PRODUCTS

None.

11. TOXICOLOGICAL INFORMATION

INHALATION

Irritating to respiratory system.

INGESTION

May cause stomach pain or vomiting.

SKIN CONTACT

May cause sensitisation by skin contact. Irritating to skin.

EYE CONTACT

May cause severe irritation to eyes.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

METHODS OF DISPOSAL

Controlled incineration (waste of residues or contaminated packaging)

14. TRANSPORT INFORMATION

INTERNATIONAL TRANSPORT REGULATIONS

UN Number 1866

LAND - ROAD/RAILWAY

Proper shipping Name Resins in solution

ADR/RID Class 3

Packing Group Marginal : 31c

Remark This class 3 material can be considered non hazardous in packaging up to 450 L. (Transported in accordance with note under E of marginal 2301)

SEA

Proper shipping Name Resins in solution, flammable

IMDG Class 3.3

IMDG Page No. (GB) 3379

Packing Group III

Medical First Aid Guide (MFAG) 310

Emergency Schedules EmS) 3 - 05

Marine Pollutant Pollutant

AIR

Proper shipping Name Resins solution in flammable liquid

UN/ID Number 1866

IATA - DGR Class 3

15. REGULATORY INFORMATION

CONTAINS

Styrene

RISK PHRASES

Flammable.

Harmful by inhalation.

Irritating to eyes and skin.

SAFETY PHRASES

Do not breathe vapour.

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16. OTHER INFORMATION

TRAINING ADVICE : The details of this data sheet must be passed on to all personnel handling the product.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.