



# MATERIAL SAFETY DATA SHEET

## EMPEYOL ESR 200/7XF

Revision No : 1

Date of Issue : MARCH 2015

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

Trade Name : EMPEYOL ESR 200/7XF  
Company : Manali Petrochemicals Limited,  
Ponneri High Road, Manali,  
Chennai – 600 068. India  
Telephone : (091)- 044 25941025 / 1249 / 1253  
Telefax No. : (091)- 044 2594 1199  
Emergency Telephone : (091)- 044 25941550 ; 044 – 25941402

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (weight)
POLYETHER POLYOL	-----	} Trade secret
AMINE CATALYST	-----	
SILICONES	-----	
BLOWING AGENT	107-31-3	
FIRE RETARDANT	-----	
Chemical Family	: Polyether polyol	

### 3. HAZARDS IDENTIFICATION

Routes of entry : Inhalation; Eye contact; Skin absorption  
Effects of exposure / symptoms : Inhalation : No data available  
Eye contact : May cause minor eye irritation  
Skin : May produce skin irritation  
Emergency treatment :  
Inhalation : Do not present a significant inhalation hazard.  
Eye contact : Immediately flush with clean water for 20-30 minutes  
Skin : Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 5 minutes.

### 4. FIRST AID MEASURES

Inhalation : Do not present a significant inhalation hazard. Remove to fresh air if Effects occur. Consult a physician.  
Eye contact : Immediately rinse with clean water for 20-30 min. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or Redness persists.  
Skin : Remove from exposure & remove contaminated clothing as needed. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes.  
Ingestion : If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.



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### 5. FIRE FIGHTING MEASURES

Fire : Not expected to a fire / explosion hazard under normal condition of use.

Fire extinguishing media: Water fog, Dry chemical powder, Carbondioxide. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Do not use direct water stream. Will spread fire.

### 6. ACCIDENTAL RELEASE MEASURES

Appropriate personal protective equipments shall be worn when fighting fires.

Protect People : Isolate area. May be a slipping hazard.

Protect The Environment : Contain material to prevent contamination of soil, surface water or groundwater. Spills should be collected to prevent contamination of waterways.

Cleanup : Contain spill if possible.

### 7. HANDLING AND STORAGE

Hygroscopic; use dry nitrogen or dew point air for tank padding; keep drums tightly closed to prevent contamination; store at 25-35°C. Avoid eating, drinking and smoking in the storage area. Product on surfaces can cause slippery conditions. Keep containers tightly closed when not in use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exhaust and Ventilation** : Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

#### **Personal Protective Equipment**

Eye/Face Protection : Use safety glasses.

Skin Protection : Use gloves impervious to this material when prolonged or frequently repeated contact could occur. If hands are cut or scratched, use gloves impervious to this material, even for brief exposures. Use gloves with insulation for thermal protection, when needed.

Respiratory Protection : For most conditions, no respiratory protection should be needed; however if material is heated or sprayed, use an approved air-purifying respirator.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range / point	: Not applicable
Physical state @15 °C & 1 atm.	: Liquid
Appearance	: Yellow to brown liquid.
Melting / freezing point	: Data not available
Vapour pressure	: Negligible
Odour	: Amine odour
Vapour density (Air = 1)	: >1
Solubility in water @ 30 °C	: Soluble
Density @ 25 °C - kg/cu.m	: 1.100 – 1.140
Flammability	: No
Flash point (°C)	: Data not available
Auto Ignition Temperature (°C)	: Data not available
LFL (%)	: Data not available
UFL (%)	: Data not available
Combustible material	: Yes
Hazardous combustion products	: Incomplete combustion may release poisonous carbon monoxide and other toxic gases
Hazardous polymerization	: Will not occur by itself
Pyrophoric material	: No
Corrosive material	: No
Oxidiser	: No
Explosion Sensitivity to static electricity	: Data not available
Explosive material	: No

### 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions
Incompatibility with other materials	: Avoid contact with oxidizing materials, isocyanates, strong acids and alkalies
Reactivity	: Exothermic reactions with isocyanates
Hazardous Reaction products	: None
Conditions to avoid	: Product can decompose at elevated temperatures



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### 11. TOXICOLOGICAL INFORMATION

Toxicity by ingestion (LD<sub>50</sub>, rat) : Data not available.  
No adverse health effects have been observed when used with personal protective equipments.

### 12. ECOLOGICAL INFORMATION

Do not allow to enter soil, waterways or waste water canals.

### 13. DISPOSAL CONSIDERATIONS

Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

### 14. TRANSPORT INFORMATION

Land transport:	ADR/ RID	Not regulated
Inland navigation transport:	ADNR	Not regulated
Sea transport:	IMDG	Not regulated
Air transport:	ICAO/IATA	Not regulated

### 15. REGULATORY INFORMATION

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### 16. OTHER INFORMATION

The reaction of polyols and isocyanates generate heat. Contact of the reacting materials with skin or eyes can cause severe burns and may be difficult to remove from the affected areas. Immediately wash affected areas with plenty of water and seek medical assistance.

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