



MATERIAL SAFETY DATA SHEET

1. Chemical Product & Company Identification

Trade Name	CXO - 12 MP (H)
Brand Name & Code	Tulsion
Validation Date	March 12, 2007
Company Identification	M/s. Thermax Limited, Chemical Division, 97-E, General Block, MIDC Industrial Area, Bhosari, Pune 411 026 [India]
24 hour emergency assistance	00 91 20 27120181, 00 91 20 27120169
Fax	00 91 20 27120206

2. Composition / Information on ingredients

Component	CAS	% by Wt.	Exposure guidelines
Methacrylic acid -DVB Copolymer	50602 - 21 - 6	50 - 56	
Water	7732 - 18 - 5	44 - 50	

3. Hazards Identification

Potential Health Effects	
Skin	Prolonged or repeated exposure not likely to cause any significant skin irritation. Skin adsorption is unlikely due to physical properties.
Eyes	May cause mechanical irritation.
Inhalation	Not expected to cause any adverse acute health effects.
Ingestion	Single dose oral LD ₅₀ has not been determined. Single dose oral toxicity is believed to be low. No hazardous anticipated from ingestion incidental to industrial exposure.
Physical / Chemical Effects	
These effects have not been studied thoroughly.	

4. First Aid Measures

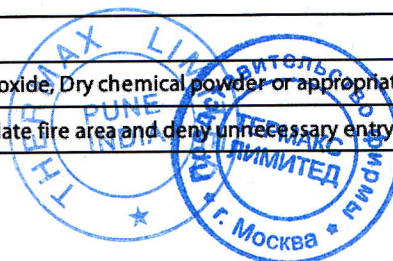
Skin	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Eyes	In case of contact flush the eyes with plenty of lukewarm water. Get medical attention if irritation is developed.
Inhalation	Remove to fresh air and get medical aid if irritation starts.
Ingestion	If ingested do not induce vomiting unless directed by medical personnel. Get medical aid.

5. Fire fighting Measures

Flash point	Not established
Auto ignition temperature	>250° C (482 °F)
LEL	Not established
UEL	Not established
Fire Extinguishing Media	Water spray, Carbon dioxide, Dry chemical powder or appropriate foam.
Basic Fire fighting Procedure	Keep people away. Isolate fire area and deny unnecessary entry. Cool

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	surroundings with water to localize fire zone. Wear MSHA/NIOSH approved, pressure demand self contained breathing apparatus / equipment.
Unusual Fire & Explosion Hazards	Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Personnel precautions	Spills should be swept off and kept in appropriate container for disposal.
Environmental precautions	Not established.

7. Handling and Storage

Handling precautions	Handle as per good industrial hygiene and safety practices. Wash thoroughly after use.
Storage conditions	Store in a closed container when not in use. Storage temperatures (Minimum -20°C maximum 40°C)

8. Exposure controls / Personnel protection

Eye protection	Safety goggles.
Skin & body protection	Not needed in normal use.
Respiratory protection	Not needed in normal use.

9. Physical and chemical properties

Physical state	Solid
Appearance	Beads
Colour	Opaque, white
Odor	Slight, naphthalein
pH	Neutral to slightly acidic
Melting point	Not established
Boiling point/Range	N / A
Flash point	N / A
Lower explosion Limit	Not established
Higher explosion limit	Not established
Vapor pressure	N / A
Specific gravity	1.16 – 1.2
Solubility in water	Insoluble
Autoignition temperature	> 250° C
Bulk density	750-850 kg/m ³





10. Stability and reactivity

Stability / incompatibility	Stable
Materials to avoid	Avoid strong oxidizing agents such as Nitric acid.
Hazardous decomposition products	Hazardous polymerization will not occur.

11. Toxicological information

No data available for this material. The information shown below is based on profiles of compositionally similar materials.

Acute	Acute oral toxicity (LD-50 > 5000 mg/kg(rat))
Skin	No skin irritation (rabbit)
Eye	No eye irritation (rabbit)
Ingestion	

12. Ecological information

Ecotoxicity & bioaccumulation	No information available.
Environmental mobility	No information available.
Environmental degradability	No information available.

13. Disposal considerations

For used / uncontaminated product, the preferred options include incineration, landfill etc.

Used material which has been contaminated with heavy metals or radioactive metals or toxic substances must be treated as per local state and federal regulations.

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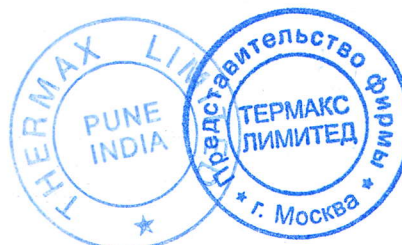
14. Transport information

Hazard Label	Non hazardous
ADR	Non hazardous for Road transport
IMDG	Non hazardous for Sea transport
IATA	Non hazardous for Air transport

15. Regulatory information

The information shown below is based on profiles of compositionally similar materials.

Hazard category	Non hazardous
Risk Phrase	
Safety Phrase	Immediately with plenty of water and seek medical advice. Wear suitable protective clothing.





16. Other information

Do not leave resin open to atmosphere. If dried, rewet before use.

Disclaimer: This information relates specifically to the product designated and may not be valid for the product when used in combination with any other materials or products or in a particular process. The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to review this information, satisfy itself as to its suitability and completeness and pass on the information to its employees or customers in accordance with applicable federal, state or local hazard communications requirement. We do not accept responsibility for any loss or damage which may occur from the use of this information. Brand name is trade mark of Thermax limited, Chemical Division, Pune, India.

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