

# MATERIAL SAFETY DATA SHEET

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Revision 01

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## 1. PRODUCT IDENTIFICATION

<b>Trade Name</b>	THOR P
<b>Description</b>	Unsaturated Polyester Resin in Styrene with Inorganic Fillers.

## 2. HAZARDOUS INGREDIENTS

Component	%	Hazard Data (EEC Classification)
Styrene	< 18	Xi CAS No. 100-45-5

## 3. HAZARD IDENTIFICATION

Harmful by inhalation.  
Do not breathe vapour.  
Irritating to eyes and skin.

## 6. HANDLING AND STORAGE

**Handling:** No special requirements (see 7 below)

**Storage:** Keep away from heat and sources of ignition. Store below 25 °C in a dry well ventilated space. Store separately from peroxides.

## 4. EMERGENCY & FIRST AID

**Eyes:** Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

**Skin:** Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

**Inhalation:** Remove to fresh air. Keep the affected person warm and at rest. Get medical attention immediately.

**Ingestion:** Immediately rinse mouth and provide fresh air. DO NOT induce vomiting. Get medical attention immediately.

## 7. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Measures:** If forced air extraction is not available in enclosed areas an organic vapour mask will be required if the occupational exposure limit is exceeded.

**Personal Protection:** Coveralls, chemically resistant footwear and synthetic rubber/PVC gloves.

**Eye Protection:** Not normally required during normal use. If splashes can occur, goggles should be worn.

**Respiratory Protection:** In poorly ventilated areas or during spraying use RPE fitted with solvent fume cartridge.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Dry powder, Carbon Dioxide, Foam.

**Special Fire Fighting Procedures:** Use self contained RPE in confined areas. Use water spray to cool fire exposed surfaces and to disperse vapours.

**Unusual Fire Hazards:** Flammable. Sealed containers heated can pressurise leading to explosion. Emits acrid black smoke and irritating fumes when heated to decomposition.

## 8. SPILL OR LEAK PROCEDURES

Do not discharge into sewers. Scrape up and place into a suitable container for disposal. Wash area with water.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Thick coloured paste	Odour	Styrene
pH	N/A	Boiling Point	N/A
Melting Point	N/A	Flash Point	Ca. 31 <sup>o</sup> C
Flammability	Flammable	Autoignition Temp.	Ca. 490 <sup>o</sup> C
Oxidising Properties	none	Solubility in Water	insoluble
Relative Density	1.50 @ 20 <sup>o</sup> C	Vapour Pressure	6.52 mb @ 20 <sup>o</sup> C

**10. STABILITY AND REACTIVITY**

<p><b>Conditions to avoid:</b> Can polymerise (solidify) exothermically if heated, exposed to air, sunlight or by addition of free radical initiators. Stable under normal conditions.</p>
<p><b>Materials to avoid:</b> Reacts vigorously with strong oxidising agents and peroxides.</p>
<p><b>Hazardous decomposition products:</b> Emits acrid smoke and irritating fumes when heated to decomposition.</p>

**12. ECOLOGICAL INFORMATION**

<p>Extremely toxic to aquatic organisms. May cause long-term effects on the aquatic environment. Do not discharge into drains or the environment.</p>
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**13. WASTE DISPOSAL**

<p>In an uncured state, place in a suitable container and dispose as chemical waste in accordance with local regulations.</p>
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**11. TOXICOLOGICAL INFORMATION**

<p><b>Inhalation:</b> Lung irritant can induce drowsiness and eventual unconsciousness.</p>
<p><b>Skin Contact:</b> Repeated exposure can cause skin dryness and cracking.</p>
<p><b>Skin Absorption:</b> -</p>
<p><b>Eye Contact:</b> Severe irritant. May cause redness or inflammation.</p>
<p><b>Ingestion:</b> Material is classed as harmful. Risk of severe pulmonary problems in case of accidental aspiration.</p>
<p><b>Acute Overexposure:</b> LD50 (rat) is 5g/kg for Styrene. LC50 (rat) ranges between 2770-6000 ppm.</p>
<p><b>Chronic Overexposure:</b> Frequent or prolonged skin exposure may lead to skin damage.</p>

**14. TRANSPORT INFORMATION**

<p>UN No. 1866 Hazard Class (ADR) 3 Packing Group III. MARINE POLLUTANT</p>
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**15. REGULATORY INFORMATION**

<p>Labelling: Harmful Risk phrase codes: R10,R20,R36/38 Safety phrase codes: S23</p>
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**16. OTHER INFORMATION**

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