

MATERIAL SAFETY DATA SHEET

Feb 2003
Revision 01

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1. PRODUCT IDENTIFICATION

Trade Name	THOR P
Description	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 ^o C
Flammability	Flammable	Autoignition Temp.	Ca. 490 ^o C
Oxidising Properties	none	Solubility in Water	insoluble
Relative Density	1.50 @ 20 ^o C	Vapour Pressure	6.52 mb @ 20 ^o C

10. STABILITY AND REACTIVITY

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

13. WASTE DISPOSAL

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

11. TOXICOLOGICAL INFORMATION

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

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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