1. Identification of the substance/preparation and of the company/undertaking

**Product name:** TRISPHENOL

**Product code:** 10081839

**Manufacturer/Supplier:** Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608


For Emergency Health, Safety & Environmental Information, call:
- United States: 1-800-424-9300
- Canada: 1-800-424-9300
- Brazil: 1-800-424-9300

**KAN Number:** 153002

**Synonyms:** not available

**Molecular Formula:** C25 H28 O3

**Molecular Weight:** 376.49 g/mol

**Product Use:** Film or paper manufacturing chemical

2. Hazards identification

CONTAINS: 2,6-Bis[(2-hydroxy-3,5-dimethylpheny)methyl]-4-methyl-phenol (35924-04-0)
(Trisphenol Developer)

**WARNING!**
POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES
HARMFUL IF INHALED OR SWALLOWED
HEALTH HAZARD EVALUATION BASED ON DATA FOR A STRUCTURALLY SIMILAR MATERIAL
THE PHYSICAL-CHEMICAL AND TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED

**HMIS III Hazard Ratings:** Health - 2, Flammability - 1, Physical Hazard - 1

**NFPA Hazard Ratings:** Health - 2, Flammability - 1, Instability - 0

NOTE: HMIS III and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (*), in the HMIS III health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Weight %</th>
<th>Components - (CAS-No.) - (Synonyms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>2,6-Bis[(2-hydroxy-3,5-dimethylpheny)methyl]-4-methyl-phenol (35924-04-0) (Trisphenol Developer)</td>
</tr>
</tbody>
</table>

4. First aid measures

**Inhalation:** If inhaled, remove to fresh air. Get medical attention.

**Eyes:** Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

**Skin:** Wash off with soap and water. Get medical attention if symptoms occur.

**Ingestion:** If swallowed, only induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

5. Fire-fighting measures

**Extinguishing Media:** Water spray, Carbon dioxide (CO2), Dry chemical.

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Hazardous Combustion Products:** Carbon oxides

**Unusual Fire and Explosion Hazards:** Dust may form explosive mixture in air.

6. Accidental release measures

Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

**Personal precautions:** Do not breathe dust. Avoid contact with eyes, skin, and clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Dust may form explosive mixture in air. Minimize dust generation and accumulation. Use only with adequate ventilation. Keep away from sources of ignition. Refer to NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids." Keep from contact with oxidizing materials.

**Storage:** Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection
Material Safety Data Sheet

Revision Date: 02/10/2009
Report Version: 1.1
Print Date: 05/26/2009
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**Occupational exposure controls:** Not established

**Ventilation:** Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level.

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. Respirator type: N95 Particulate Filter. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

**Eye protection:** Wear safety glasses with side shields (or goggles).

**Hand protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

### 9. Physical and chemical properties

**Physical form:** solid (free flowing powder)

**Colour:** white

**Odour:** no data available

**Specific gravity:** no data available

**Vapour pressure:** no data available

**Vapour density:** no data available

**Volatile fraction by weight:** no data available

**Melting point/range:** no data available

**Water solubility:** no data available

**pH:** no data available

**Flash point:** not applicable, combustible solid

### 10. Stability and reactivity

**Stability:** Stable

**Incompatibility:** Strong oxidizing agents.

**Hazardous decomposition products:** None under normal conditions of use.

**Hazardous Polymerization:** Hazardous polymerisation does not occur.
11. Toxicological information

Effects of Exposure

General advice: The toxicological properties of this material have not been fully investigated and its handling and use may present additional hazards. The following information is based, in part, on an analogy to: 2,2’-(2-Methylpropylidene)bis(4,6-dimethyl-phenol).

Inhalation: Harmful if inhaled.

Eyes: No specific hazard known. May cause transient irritation.

Skin: Expected to be a low hazard for recommended handling.

Ingestion: Harmful if swallowed.

Data for 2,2’-(2-Methylpropylidene)bis(4,6-dimethyl-phenol) (CAS 33145-10-7):

Acute Toxicity Data:
- Oral LD50 (female rat): 103 mg/kg
- Oral LD50 (male rat): 119 mg/kg
- Dermal LD50 (rat): > 2,000 mg/kg
- Skin irritation: negative
- Skin Sensitization: negative
- Eye irritation: none

Mutagenicity/Genotoxicity Data:
- Salmonella-E. coli/Mammalian-Microsome Reverse Mutation Assay (TA98, TA100, TA1535, TA1537, E. coli WP2uvrA (pKM101)): negative

Definitions for the following section(s): LOEL = lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL = no-observed-effect level.

Repeated dose toxicity:
- Feeding study (90 days, male rat): NOAEL; 27.9
- Feeding study (90 days, female rat): NOAEL; 29.6
- Feeding study (18 months, male rat): LOEL (Lowest observable effect level); 3.84 (minor target organ effects: kidney)
- Feeding study (18 months, female rat): NOAEL; 4.26 (minor target organ effects: kidney)

12. Ecological information

This section has not been completed.

13. Disposal considerations
Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

Not regulated for all modes of transportation.

For more transportation information, go to: http://ship.carestreamhealth.com.

15. Regulatory information

Other regulations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>American Conference of Governmental Industrial Hygienists (ACGIH):</td>
<td>none</td>
</tr>
<tr>
<td>International Agency for Research on Cancer (IARC):</td>
<td>none</td>
</tr>
<tr>
<td>U.S. National Toxicology Program (NTP):</td>
<td>none</td>
</tr>
<tr>
<td>U.S. Occupational Safety and Health Administration (OSHA):</td>
<td>none</td>
</tr>
<tr>
<td>California Prop. 65:</td>
<td>none</td>
</tr>
<tr>
<td>WHMIS (Canada):</td>
<td>D2B</td>
</tr>
</tbody>
</table>

16. Other information

US/Canadian Label Statements:

CONTAINS: 2,6-Bis[(2-hydroxy-3,5-dimethylpheny)methyl]-4-methyl-phenol (35924-04-0)  
(Trisphenol Developer)

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THE PHYSICAL-CHEMICAL AND TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED

Minimize dust generation and accumulation.
Do not breathe dust.
Keep container closed.
Use only with adequate ventilation.
Avoid contact with eyes, skin, and clothing.
Wash thoroughly after handling.

FIRST AID: If inhaled, remove to fresh air. Get medical attention. If swallowed, only induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.
IN CASE OF FIRE: Use Water spray, Carbon dioxide (CO2), Dry chemical.

IN CASE OF SPILL: Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

Keep out of reach of children.

Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.