

**SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Substance:** 2-(2'-Hydroxy-3',5'-di-t-butylphenyl)-5-chlorobenzotriazole

**Trade Names/Synonyms:** SONGSORB™ 3270

2-(3',5'-di-tert-butyl-2'-hydroxyphenyl)-5-chloro-benzotriazole; 5-Chloro-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole; 2,4-Di-tert-butyl-6-(5-chloro-2Hbenzotriazol-2-yl)phenol; C20-H24-Cl-N3-O

**Chemical Family:** Substituted benzotriazole

**Manufacturer's Name:** Songwon Ind. Co., Ltd

**Address:** 737-2 Yochon-Dong, Nam-Gu, Ulsan, Korea

**E-Mail:** info@songwonind.com

**Supplier:** Songwon International –Americas, Inc.

P.O. Box 1455 Friendswood, Texas 77546 USA

Tel: +1-877-SONGWON Fax: +1-713-456-1812

**Emergency Telephone No :**

North East Asia / South East Asia: call Songwon Ind Tel: +82-(0)52-273-9841

Europe / Middle East / India / Africa: Call Big Tel: +32.(0).14.58.45.45

Americas: Call CHEMTREC Day or Night DOMESTIC NORTH AMERICA 1-800-424-9300 INTERNATIONAL, CALL USA 703-527-3887 (collect calls accepted)

**Date First Edition:** 2006.08.18

**Date New Edition:** 2007.08.17 (Rev.4)

**SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS**

Ingredient Name	CAS No.	EC Number	%	Exposure Limits
2-(2'-Hydroxy-3',5'-di-t-butyl phenyl)-5-chlorobenzotriazole	3864-99-1	223-383-8	Min. 99	Y (Hazardous) 15 mg/m3 (PNOR) (OSHA PEL TWA) Not established (OSHA PEL STEL) Not established (OSHA PEL CEIL) 10 mg/m3 (PNOS) (ACGIH TLV TWA) Not established (ACGIH TLV STEL) Not established (ACGIH TLV CEIL) 5 mg/m3 Respirable Dust Level (OSHA) 3 mg/m3 Respirable Dust Level (ACGIH)
Indented chemicals are components of previous ingredient. PNOR = Particulates Not Otherwise Regulated PNOS = Particulates Not Otherwise Specified				

**SECTION 3 HAZARDS IDENTIFICATION**

**MATERIAL SAFETY DATA SHEET**  
**SONGSORB™ 3270 PW**



**NFPA Ratings (Scale 0-4):** Health=2 Flammability=1 Reactivity=0

**HMIS Ratings (Scale 0-4):** Health=2\* Flammability=1 Reactivity=0

**Emergency Overview:**

Odorless, slightly yellowish powder.

Dusts can form an explosive mixture with air.

**Potential Health Effects:**

**Inhalation:** As with any dust, mechanical irritation is possible to mucous membranes and the respiratory tract.

**Skin Contact:** Not expected to be a hazard in normal industrial use. May cause slight skin irritation.

**Eye Contact:** Not expected to be a hazard in normal industrial use. May cause mild eye irritation.

**Ingestion:** Not expected to be a hazard in normal industrial use.

**Carcinogen status:**

OSHA: N

NTP: N

IARC: N

**SECTION 4 FIRST AID MEASURES**

**Inhalation:**

First Aid- Remove from exposure area to fresh air immediately.

Perform artificial respiration if necessary. Get medical attention immediately.

**Skin Contact:**

First Aid- Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes).

Get medical attention immediately.

**Eye Contact:**

First Aid- Wash eyes immediately with large amounts of water for at least 15-20 minutes.

Get medical attention immediately.

**Ingestion:**

First Aid- If vomiting occurs, keep head lower than hips to help prevent aspiration.

Treat symptomatically and supportively. Get medical attention if needed.

**Note To Physician**

Antidote: No specific antidote.

**SECTION 5 FIRE FIGHTING MEASURES**

**Fire And Explosion Hazard:** Under fire conditions, toxic and irritating fumes may be emitted.

Dust-air mixtures may ignite or explode.

**Extinguishing Media:**

Dry chemical, carbon dioxide(CO<sub>2</sub>), water spray or regular foam.

**Firefighting:**

Move container from fire area if you can do it without risk.

Do not scatter spilled material with high-pressure water streams.

Wear a self-contained breathing apparatus and protective clothing to prevent skin and eye contact in fire situations.

Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

**Flash Point:** 234 °C

**Autoignition Point:** 430 °C (Ignition temperature)

**Lower Flammable Limit:** No data available

**Upper Flammable Limit:** No data available

**Hazardous Combustion Products:** Thermal decomposition products may include toxic oxides of carbon and oxides of nitrogen, hydrogen chloride and/or chlorine.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Occupational Spill:**

Shut off all sources of ignition. Wearing appropriate personal protective equipment, carefully sweep up material and place in suitable labeled containers for disposal.

Sweep up and place in suitable clean, dry containers for reclamation or later disposal.

Do not flush spilled material into sewer. Keep unnecessary people away.

**Personal Precautions:** Do not breathe vapor or dust. Remove all sources of ignition. Avoid contact with skin, eyes and clothing.

**Environmental Precautions:** Avoid releasing to the environment.

**SECTION 7 HANDLING AND STORAGE**

**Handling:** Use appropriate personal protection equipment.

Avoid eye, skin and clothing contact.

Avoid breathing dust.

Avoid creating a dusting situation.

Keep away from heat, sparks and flame.

Prevent buildup of static electricity.

All equipment should be properly grounded.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible materials.

Store away from heat, sparks, and flame.

Keep container tightly closed.

## SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Limits:** See Section 2.

**Ventilation:** Use local exhaust to minimize dusting.

Use mechanical ventilation for general area control.

**Eye Protection:** Chemical safety glasses with side shields or chemical safety goggles.

**Skin And Body Protection:** Working clothes, closed footwear.

**Respirator Protection:** Effective dust mask.

**Hand Protection:** Protective gloves

**Work Hygienic Practices:** Wash thoroughly after handling. Wash contaminated clothing before reuse.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Description:** Odorless, slightly yellowish powder.

**Molecular Weight:** 358

**Molecular Formula:** C<sub>20</sub>-H<sub>24</sub>-Cl-N<sub>3</sub>-O

**Boiling Point:** Not available

**Melting Point:** 154-157 °C

**Vapor Pressure:** 1.1 E-6 mmHg(20°C)

**Vapor Density:** Not available

**Specific Gravity:** 1.26(20°C)

**Water Solubility:** Insoluble

**Volatility:** Max. 0.5%

**Octanol/Water Partition Coefficient:** Log Pow >6

**Viscosity:** Not available

**PH:** Not applicable

**Odor Threshold:** Not available

**Evaporation Rate:** Not available

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** Stable under normal temperatures and pressures.

**Conditions To Avoid:** None.

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**Incompatibilities:** Strong acids, strong bases and strong oxidising agents.

**Hazardous Decomposition:** Thermal decomposition products may include toxic oxides of carbon, oxides of nitrogen (NOx), hydrogen chloride and/or chlorine.

**Polymerization:** Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Toxicity Data:** >5,000 mg/Kg oral-rats LD50

**Carcinogen Status:** None.

**SECTION 12 ECOLOGICAL INFORMATION**

**Environmental Impact Rating (0-4):** No data available

**Acute Aquatic Toxicity:** >100 mg/L LC50 in fish (Brachydanio rerio)(96H)

16 mg/L EC50 in Daphnia magna (24H)

56 mg/L EC50 in algae (Scenedesmus sp.) (72H)

**Degradability:** Not degradable

**Log Bioconcentration Factor (BCF):** No data available

**Log Octanol/Water Partition Coefficient:** Log Pow >6

**SECTION 13 DISPOSAL CONSIDERATIONS**

Observe all federal, state and local regulations when disposing of this substance.

**SECTION 14 TRANSPORT INFORMATION**

**U.S. DOT**

**Proper Shipping Name:** Not regulated

**AIR - ICAO OR IATA**

**Proper Shipping Name:** Not regulated

**WATER – IMDG**

**Proper Shipping Name:** Not regulated

**SECTION 15 REGULATORY INFORMATION**

TSCA Inventory Status: Y

CERCLA Section 103 (40CFR302.4): N

SARA Section 302 (40CFR355.30): N

SARA Section 304 (40CFR355.40): N

SARA Section 313 (40CFR372.65): N

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OSHA Process Safety (29CFR1910.119): N

California Proposition 65: N

SARA Hazard Categories, SARA Sections 311/312 (40 CFR 370.21)

Acute Hazard: N

Chronic Hazard: Y

Fire Hazard: N

Reactivity Hazard: N

Sudden Release Hazard: N

**SECTION 16 OTHER INFORMATION**