


Material Safety Data Sheet
FLXP0051

Revision Date: 10/31/2000
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SANTOWHITE BBMC

MSDS NO. FLXP0051

Chemical Name: 4,4'-Butylidene-bis(6-tert-butyl-m-cresol)

Synonyms: Santowhite Powder; Powder 345; BBM

Use: Antioxidant.

Manufactured By: Flexsys America L.P. 260 Springside Drive Akron OH 44333 USA

Emergency Telephone: **CHEMTREC:** 1-800-424-9300 (TOLL FREE - USA and Territories)
703-527-3887 (ELSEWHERE - Collect Calls Accepted)

CANUTEC: 613-996-6666 (Canada)

SETIQ: 91-800-00-214 (Mexico)

Prepared By: Flexsys America Product Safety Phone (330) 668-8281 FAX (330) 668-8281

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components/CAS#	Percent
4,4'-Butylidene-bis(6-tert-butyl-m-cresol) 85-60-9	100

3. HAZARDS IDENTIFICATION

Hazard Information

Emergency Overview: WARNING! Combustible dust - explosion potential. Causes eye irritation. May irritate the skin.

Eye Contact: Causes mild eye irritation. Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

Skin Contact: Causes mild skin irritation. Causes drying of the skin. May cause a rash and itching of the skin.

Inhalation: Causes moderate respiratory irritation. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Ingestion: Illness may occur after a single swallowing of relatively large quantities of this material.

4. FIRST AID MEASURES

In Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

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HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Seiberling Street • Akron, Ohio 44305

On Skin:	Remove contaminated clothing. Wash skin with water, using soap if available. Remove contaminated clothing and laundry before reuse. Get medical attention if irritation persists.
Inhaled:	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Swallowed:	If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention.
Notes To Physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C):	383°F / 195°C
Flash Point Method:	Cleveland Open Cup [ASTM D-92]
Autoignition Temp. (°F/C):	470°F / 243°C
Lower Explosion Limit in Air (LEL):	Not Determined
Upper Explosion Limit in Air (UEL):	Not Determined.
Extinguishing Media:	Water fog, carbon dioxide, foam, dry chemical
Special Exposure Hazards:	Fight fire from a safe distance and from a protected location. Sprinkler and/or deluge systems recommended for bulk storage areas. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways.
Special Protective Equipment:	Fire fighters should wear full protective clothing, including self-contained breathing equipment.
Unusual Fire/Explosion Hazards:	Toxic emissions may result if product is involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.
Procedure for Cleaning/Absorption:	Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Scoop up and remove. Ventilate area. Do NOT spread spilled product with water.
CERCLA Reportable Quantity (RQ):	Not Applicable

7. HANDLING AND STORAGE

Handling:	Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Avoid generating or breathing dust. Avoid contact with eyes, skin and clothing. Reclose containers of unused product. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Do not reuse this container.
Storage:	Store closed containers in a cool, dry, well-ventilated area. Avoid exposure to direct sunlight. Do not double stack.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:	Wear safety glasses or goggles to protect against exposure. Wear eye protection appropriate to handling activities.
Skin Protection:	Normal work coveralls. Launder contaminated clothing before reuse.
Gloves:	Use gloves as a standard industrial handling procedure. All cleanable impervious glove types are acceptable.
Respiratory Protection:	Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Firefighting; use a Positive Pressure

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Demand Full Face Self Contained Breathing Apparatus.

Ventilation:

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product. If air is to be recirculated, it must be filtered properly.

Airborne Exposure Limits:

Nuisance Dust. OSHA PEL/8Hr-TWA = 15 mg/m³ (Total Dust). OSHA PEL/8-Hr TWA = 05 mg/m³ (Respirable Dust). ACGIH TLV/8-Hr TWA = 10 mg/m³.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to off-white powder
Odor:	SLIGHT AROMATIC
pH:	N/A
Specific Gravity:	1.03 @ 25°C
Density:	Not Determined
Bulk Density:	Not Determined
Melting Point (°F/C):	210°C
Boiling Point (°F/C):	Not Determined
Vapor Pressure:	Negligible
Vapor Density (Air=1):	Not Determined
% Volatile by Volume:	<0.5%
Solubility in Water:	INSOLUBLE
Other Solubility:	Soluble in Acetone Ether Alcohol Benzene Naphtha
Viscosity:	Not Determined.
Other Data:	Not determined.
Molecular Weight:	382.64
Molecular Formula:	C ₂₆ H ₃₈ O ₂

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Keep away from heat, sparks and flame. Exposure to heat and humidity. Do not double stack.
Materials to Avoid:	Strong reducing agents.
Hazardous Decomposition Products:	Carbon monoxide. Oxides of nitrogen.
Additional Guidelines:	Not Applicable

11. TOXICOLOGICAL INFORMATION

Target Organs	
Acute Oral LD50 (mg/kg):	>7940 mg/kg
Acute Dermal LD50 (mg/kg):	>7940 mg/kg
Acute Inhalation LC50 (mg/l):	Not Determined
Principle Routes of Exposure:	Eyes. Inhalation. Dermal - skin.
Ingestion:	Illness may occur after a single swallowing of relatively large quantities of this material.
Skin Contact:	Causes mild skin irritation. Causes drying of the skin. May cause a rash and itching of the skin.
Inhalation:	Causes moderate respiratory irritation. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.
Eye Contact:	Causes mild eye irritation . Mild Eye Irritation: signs/symptoms can include

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redness, swelling, pain, and tearing.

Dermal ailments. Respiratory Eye ailments.

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA. Carcinogenic: Category 3

Only hazard is a dust hazard.

Slightly irritating.

Negative in standard tests using bacteria and yeast cells.

None

Not determined

Aggravated Conditions:
Carcinogenicity Comment:

Other:
Primary Irritation Effect:
Carcinogenicity:
Genotoxicity:
Reproductive/Developmental Toxicity:

12. ECOLOGICAL INFORMATION

Acute Fish Toxicity: 96Hr LC50 Rainbow Trout: >1000 mg/l. 96Hr LC50 Bluegill Sunfish: >1000 mg/l.
96Hr LC50 Fathead Minnow = >1000 mg/l.
Acute Crustaceans Toxicity: 48Hr EC50 Daphnia Magna: 16 mg/l.
Acute Algae Toxicity: 96Hr EC50 Algae = >1000 mg/kg.
Octanol/Water Coefficient: Not determined.
Chemical Fate Information: Not determined
Other Information: Not Available

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method:
This material is not a RCRA hazardous waste. Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations. Empty containers should be handled in a manner not to cause dusting during collection, transportation and disposal.

Contaminated Packaging:
If empty container retains product residues, all label precautions must be observed. Store away from ignition sources. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Dispose of container according to national or local regulations.

14. TRANSPORT INFORMATION

DOT:DOT Status: Not Regulated
DOT Shipping Name: NONE
DOT Reportable Quantity (lbs): None
ICAO/IATA:Status: NOT REGULATED FOR TRANSPORTATION
Proper Shipping Name: None
UN/NA Number: NONE
IMDG:Status: Not Regulated
Proper Shipping Name: None
TDG (Canada):Status: Not Regulated
Proper Shipping Name: None

15. REGULATORY INFORMATION

Worldwide Inventory Status
TSCA (USA): Listed
Canadian DSL: Listed
Canadian NDSL: N/A

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EINECS/ELINCS (Europe): Listed
Japanese Inventory (ENCS): Listed
Korean Chemical Inventory (ECL): Listed
Australian Chemical Inventories (AICS): Listed
New Zealand (NZ): Listed
Phillipines (PICCS) Inventory: Listed
China (CLECS): Listed

US Regulatory Rules
SARA Section 302: None Found
SARA 311/312 Hazard Categories: Fire
SARA 313 Chemical: N/A
RCRA Status: Not a RCRA waste.

Other Regulations:
California Proposition 65: NONE
New Jersey Right-to-Know List: N/A
Pennsylvania Right to Know List: N/A
Florida Right to Know: N/A
Minnesota Right to Know: N/A
MA Right to Know Law: N/A

FDA Status 21 CFR: Regulated for Use under the following sections of 21 CFR: 177.2600 Rubber Articles Intended for Repeated Use in Food Contact. 175.105 Components of Adhesives. 178.2010 Antioxidants and/or Stabilizers for Polymers. 175.300 Resinous and Polymeric Coatings. 177.1632 Poly(phenyleneterephthalamide) Resins

Canadian Regulations
WHMIS Hazard Class: NON-CONTROLLED
NPRI: N/A

16. OTHER INFORMATION

Hazard Rating Systems:
HMIS Classification: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0
NFPA Rating: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

The following has been revised since the last issue of this MSDS:
Nothing has been revised.

Additional Information: NONE

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END OF MSDS

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