



Material Safety Data Sheet

Last Revision: 05/04/2007

Printing Date: 05/04/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SANTOWEB® D
MSDS NO. FLXP0044
Chemical Name: Treated Cellulose Fibers
Synonyms: Short Fiber Rubber Composite
Use: Reinforcing Agent
Manufactured By: Flexsys America L.P. 260 Springside Drive Akron OH 44333-2433 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]

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2. HAZARDS IDENTIFICATION

Emergency Overview: CAUTION! This material may cause transient skin and eye irritation. Contains Carbon Black - Possible Human Carcinogen. Burning material emits highly toxic vapors.

Eye Contact: Fumes may cause irritation.
Skin Contact: Causes mild skin irritation. May cause a rash and itching of the skin.
Inhalation: Vapors given off by heated product may be harmful or irritating.
Ingestion: May act as obstruction if swallowed. Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Bleached Hardwood Pulp	65996-61-4	65 - 70
Petroleum Distillates, Solvent-Refined Heavy Paraffinic	64741-88-4	10 - 13
Styrene-Butadiene Copolymer	9003-55-8	7 - 9
Resorcinol Homopolymer, Resorcinol-Formaldehyde Resin	65876-95-1	4 - 6
Carbon Black	1333-86-4	3 - 5
Resorcinol	108-46-3	1 - 2

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.

On Skin: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse. If irritation persists or signs of toxicity occur, seek medical attention.

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60 S. Seiberling Street • Akron, Ohio 44305

4. FIRST AID MEASURES

Inhaled:	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Have trained personnel administer oxygen.
Swallowed:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
Notes To Physician:	Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C):	>350°F / 176°C
Flash Point Method:	Pensky-Martens Open Cup
Autoignition Temp. (°F/C):	368°F / 187°C
Lower Explosion Limit (LEL):	Not Determined.
Upper Explosion Limit (UEL):	Not Determined.
Extinguishing Media:	Use water fog, carbon dioxide, foam or dry chemical.
Special Exposure Hazards:	Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces. Sprinkler and/or deluge systems recommended for bulk storage areas. Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways.
Special Protective Equipment:	Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.
Unusual Fire/Explosion Hazards:	Toxic emissions may result if product is involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Wear protective equipment. Sweep, vacuum or shovel and place in closable container for disposal.
Procedure for Cleaning/Absorption:	Isolate spill and stop leak where safe. Ventilate area. Scoop up and remove solids. 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 contact with eyes, skin and clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid excessive storage temperature. Avoid contact with vapors from heated material. Keep containers tightly closed when not in use. Handle only in designated area. 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.
Skin Protection:	Normal work coveralls. Launder contaminated clothing before reuse.
Gloves:	All cleanable impervious glove types are acceptable. Use gloves as a standard industrial handling procedure.
Respiratory Protection:	Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Firefighting: Use a Positive Pressure Demand Full Face Self Contained Breathing Apparatus.

FLXP0044

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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. Use only in well ventilated area.

Component	ACGIH 8 Hr. TWA	ACGIH TLV	OSHA 8 Hr. TWA	OSHA PEL
Resorcinol	10 ppm TWA; 45 mg/m ³ TWA		10 ppm TWA; 45 mg/m ³ TWA	

Airborne Exposure Limits: OSHA PEL/8-Hr TWA: None established for major component(s).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black fibers
Odor: RUBBER
pH: Not Applicable
Specific Gravity: 1.4
Density: 1370 kg/m³ @ 25°C
Bulk Density: 550 kg/m³
Melting Point (°F/C): Not Applicable
Boiling Point (°F/C): Not Applicable
Vapor Pressure: Not Determined
Vapor Density (Air=1): Not Determined
% Volatile by Volume: 0.75-3.5% (Heat Loss)
Solubility in Water: INSOLUBLE
Other Solubility: Not Determined
Viscosity: Not Applicable
Other Data: Ash Residue: 0.6% max
Molecular Weight: Mixture
Molecular Formula: Mixture

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. Not chemically reactive.
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: None known
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Oxides of sulfur.
Additional Guidelines: Not Applicable

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 (mg/kg): >12,000 mg/kg (Rat)
Acute Dermal LD50 (mg/kg): >7940 mg/kg (Rabbit)
Acute Inhalation LC50 (mg/l): Not Determined

Target Organs / Principle Routes of Exposure: Dermal - skin. Eyes.

Ingestion: May act as obstruction if swallowed. Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.
Skin Contact: Causes mild skin irritation. May cause a rash and itching of the skin.
Inhalation: Vapors given off by heated product may be harmful or irritating.
Eye Contact: Fumes may cause irritation.
Aggravated Conditions: Dermal ailments. Pulmonary disorders. Eye ailments.

FLXP0044

11. TOXICOLOGICAL INFORMATION

Carcinogenicity Comment:	This product contains a component that is a carcinogen. Carbon Black [CAS# 1333-86-4].
Other Information:	Fumes from processing this material may irritate the eyes, skin, or respiratory tract. Use local ventilation above processing equipment. Avoid inhalation, skin, or eye contact with processing fumes. Wash thoroughly if exposed to processing fumes.
Primary Irritation Effect:	Slightly irritating to skin and eyes.
Carcinogenicity:	Carbon Black - Group 2B. This product has not been tested as a mixture.
Genotoxicity:	This product has not been tested as a mixture.
Reproductive/Developmental Toxicity:	Not Determined. This product has not been tested as a mixture.

12. ECOLOGICAL INFORMATION

Acute Fish Toxicity:	Not Determined.
Acute Crustaceans Toxicity:	Not Determined.
Acute Algae Toxicity:	Not Determined.
Octanol/Water Coefficient:	Not Determined.
Chemical Fate Information:	Not Determined.
Other Information:	This product is a mixture. Aquatic toxicology is based on component information. Some components exhibit at least moderate toxicity to various aquatic species.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method:	This product, if disposed as received, is a non-hazardous waste. Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations.
Contaminated Packaging:	If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Do NOT reuse container.

14. TRANSPORT INFORMATION

DOT:	Not Regulated
DOT Reportable Quantity (lbs):	None
ICAO/IATA:	See DOT
IMDG:	See DOT
Marine Pollutant:	No
TDG (Canada):	See DOT
Remarks:	None

15. REGULATORY INFORMATION

Worldwide Inventory Status

USA (TSCA):	All components are listed.
Canada (DSL):	All components are listed.
Canada (NDSL):	Not Applicable. Listed on the DSL.
European Union (EINECS/ELINCS):	All components are listed.
Japan (ENCS):	All components are listed.
Korea (ECL):	All components are listed.
Australia (AICS):	All components are listed.
New Zealand (NZ):	All components are listed.
Phillipines (PICCS):	All components are listed.
China (CLECS):	All components are listed.

15. REGULATORY INFORMATION

US Regulatory Rules

SARA Section 302: None Found
SARA 311/312 Hazard Categories: Immediate
SARA 313 Chemical: Not Applicable / None
RCRA Status: Not a RCRA waste.

Other Regulations:

California Proposition 65: NONE
New Jersey Right-to-Know List: Components Resorcinol and Carbon Black.
Pennsylvania Right to Know List: Components Resorcinol and Carbon Black.
Florida Right to Know: Not Applicable.
Minnesota Right to Know: Components Resorcinol and Carbon Black.
Massachusetts Right to Know Law: Components Resorcinol and Carbon Black.

FDA Status 21 CFR: Not Regulated For Use in food contact applications under 21 CFR.

Canadian Regulations

WHMIS Hazard Class: D2B TOXIC MATERIALS / Materials Causing Other Toxic Effects
NPRI: Not Applicable [Canada]

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: New MSDS format.

Additional Information: WHMIS Ingredient Disclosure List (Canada): Components Resorcinol and Carbon Black. WHMIS Concentration threshold = 1%. Component Resorcinol appears on the following lists: Clean Air Act Volatile Organic Compound (VOC). Clean Water Act Section 311 Hazardous Substance (USA). Mexican Workplace OELs apply. Canadian Workplace OELs apply in Alberta, British Columbia, Ontario and Quebec.

Important Note: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

END OF MSDS

FLXP0044